Vnk and Kiss setup

The ONLY Echelle work in This Book

Oct 9 To Oct 16 1997

300 ln/mm X grating

Echelle Tilt 19.45 For 6300Å center.

Xg tilt = .5835

noted June 2000 Tm

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3

Spectr. Temp.

Focus.....

Spectr. Temp.

Exp. Mtr.	Se

Spectr. Temp. ..... Dome Temp./Hum. ..... Transparency Conditions .....

Focus .....

Spectr. Temp. ..... Dome Temp./Hum. .....

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality

DAVID DUNLAP OBSERVATORY
74" LOGBOOK
VOL. 88
PLATE NOS CC 48489 - CC 50685
SEPT 1997 - DEC 1997

PG #1

5

Date 1997 Sept 12/13 Observers VnK/Ks8/Lu

Emulsion Batches:

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CCD

Specif. Temp.

Focus.....

Spectr. Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp. Mir.	Se
CL4848/90	Inboard/outboard							FLAT ND#3	4/7		
91	BIAS(4)			23 40							
92	comp							"	4		
93	13D+39 4379	20 57 21	40 10 39	23 49 35					1800	514	4
94	comp							"	4		
95	comp							"	4		
96	HD187921	19 47 24	27 12 00	00 25 25					600	2350	
97	comp							"	4		
98	comp							"	4		
99	HD222368	23 34 48	05 05 03	00 42 49					154	1540	
cl48500	comp							"	4		
01	BIAS(4)			00 51							
02/08	flats							Tung ND#5	4		

CCD
Spectr. Temp. −100.6°C Dome Temp./Hum. 15.6°C / 86.1% Transparency Conditions Part cloudy

Focus .....

Spectr. Temp. ..... Dome Temp./Hum. .....

Comparison Filter	Comparison Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
#3	4/7					CASS CCD	1800/mm 5635	306μ	6600	3/4			
										1			
	4									6			
	1800	514	4"–6"	10	F5I					7	Vnk Cep		
	4									8			
	4									8			
	600	2350		7	G2I					9	"		
	4									10			
	4									10			
	154	1540		4.13	F7V					11			
	4									12			
										1			
#5	4									5			

PG #1 Sun/Mon

Date 1997 Sept 14/15 Observers VnK/KSz/LU

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	CCD Exp. Mtr.	CCD Spectr. Temp
CC48509/10	Inboard/outboard							4/3	FeAr ND#3		
11	BIAS(4)			1937							
12	comp							FeAr ND#3	4		
13	HD171232	18:28:30	25:25:00	19 45 55					405	2060	
14	comp							"	4		
15	comp	~~21 25 50~~	~~66 22 22~~					"	4		
16	HD204770	21 25 50	66 22 22	20 07 30					354	10K	
17	comp							"	4		
18	BIAS(4)			20 37							
19	comp							"	4		
20	HD197433	20 38 36	75 14 00	20 40 42					600	2412	
21	"	"	"	20 51 09					600	2285	
22	"	"	"	21 01 35					600	2330	
23	comp							"	4		
24	HD197433	"	"	21 14 23					600	2330	
25	"	"	"	21 24 26					670	2800	

CCD Spectr. Temp. -100.6 °C Dome Temp./Hum. 18.7°C/62.2% Transparency Conditions fine with some clouds mlowersky

Focus 6.72

Spectr. Temp. ..... Dome Temp./Hum. ..... 400 0 50 1024 4 1 CCDFMT

Comparison Filter	Comparison Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
FeAr ND#3						CASS CCD	1800 l/mm 56,35	306μ	6600	3/4			
										1			
ND#3	4									6			
	405	2060	1"-2"	7.7	G8					7	Vel std		
	4									8			
	4									8			
	354	10K		5.4	B7					9	↑		
	4									10	Telluric std		
										~~12~~			
	4									11			
	600	2412	2"	7.5	K0					12	VnK CB		
	600	2285								13			
	600	2330								14			
	4									15			
	601	2330								16			
	670	2800								17			

PG #2

Date 1997 Sept 14/15 Observers VnK/KSg/Les

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp. Mtr.
cc48526	HD197433	20 38 36	75 14 00	21 36 26					600	2900
27	comp							FeAr ND#3	4	
28	BIAS(4)			21 47 43					0	
29	HD197433	"	"	21 49 08					600	3240
30	"	"	"	21 59 31					600	3510
31	"	"	"	22 09 59					600	3500
32	comp							"	4	
33	HD197433	"	"	22 21 46					600	3515
34	"	"	"	22 32 09					600	3820
35	"	"	"	22 42 36					600	3600
36	comp			~~22 53~~				"	4	
37	BIAS(4)			22 55					0	
38	HD197433	"	"	22 55 05					600	3810
39	"	"	"	23 05 44					600	3850
40	"	"	"	23 16 22					600	3500
41	comp							"	4	

CCD Spectr. Temp. .....
Focus .....
Spectr. Temp. .....

CCD
Spectr. Temp. −100.6°C Dome Temp./Hum. 17.6°C/69.5% Transparency Conditions slightly haze
Focus 6.72
Spectr. Temp. ..... Dome Temp./Hum. .....

Comparison Filter Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
600	2900	1"+	7.5	KO	CASS CCD	1800 l/mm 56.35	306μ	6600	18	VnK C8		
									19			
									1			
600	3240		"	"					20			
600	3510		"	"					21			
600	3500		"	"					22			
4									23			
600	3515		"	"					24			
600	3820		"	"					25			
600	3600		"	"					26			
4									27			
0									1			
600	3800		"	"					28			
600	3850		"	"					29			
600	3500		"	"					30			
4									6			

PG3 Sun/Mon

11 Date 1997 Sept 14/15 Observers VnK/KSZ/Lu

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc48542	HD197433	20 38 36	75 14 00	23 28 08					600
43	"	"	"	23 38 33					600
44	"	"	"	23 48 58					600
45	comp							FeAr ND#3	
46	BIAS(4)			00 00					0
47	HD197433	"	"	00 01 24					600
48	"	"	"	00 12 01					608
49	"	"	"	00 22 42					600
50	comp	~~"~~	~~"~~					FeAr ND#3	4s
51	HD197433	"	"	00 34 59					600
52	"	"	"	00 45 28					600
53	"	"	"	00 56 04					600
54	comp							"	4
55	BIAS(4)			01 07					0
56	HD197433	"	"	01 09 32					600
57	"			01 20 02					600

CCD
Spectr. Temp
Focus
Spectr. Temp

Exp Mtr	S
3056	
2780	
2480	
2490	
2480	
2450	
2600	
2525	
2630	
2200	
2100	

CCD
Spectr. Temp. −100.6°C Dome Temp./Hum. 17.2°C/71.8% Transparency Conditions fine 12

Focus 6.72

Spectr. Temp. ..... Dome Temp./Hum. .....

Comparison Filter Exp	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
600	3056		7.5	KO	CASS CCD	1800/mm 5635	306μ	6600	7	VnK CB		
600	2780		"	"					8			
600	2480		"	"					9			
									10			
0									1			
600	2490		"	"					11			
600	2480		"	"					12			
600	2450		"	"					13			
45									14			
600	2600		"	"					15			
600	2525		"	"					16			
600	2630		"	"					17			
4									18			
0									1			
600	2200		"	"					19			
600	2140								20			

PG #4

13

Date 1997 Sept 14/15 Observers Vnk/Ks8/Lu

Emulsion Batches:

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CCD Spectr. Temp

Focus .....

Spectr. Temp

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp Mtr
CC48558	HD197433	20 38 36	75 14 00	01 30 35					600	2140
59	comp							Fe8tr No #3	4s	
60	HD197433	"	"	01 42 13					600	2500
61	"	"	"	01 52 35					600	2460
62	"	"	"	02 03 01					600	2265
63	comp							"	4	
64	BIAS(4)			02 14						
65	HD197433	"	"	02 15 49					600	2120
66	"	"	"	02 26 11					600	6180
67	"	"	"	02 36 33			"	"	600	2200
68	comp							"	4	
69	HD197433	"	"	02 48 26					600	2029
70	"	"	"	02 58 49					600	2010
71		"	"	03 14 34					600	7160
72	comp						"	"	4	
73	BIAS(4)			03 25					(4)	

CCD
Spectr. Temp. -100.6°C ..... Dome Temp./Hum. 15.5°C / 78.8% Transparency Conditions ..... fine 14

Focus ..... 6.7.2 ..... → getting foggy

Spectr. Temp. ..... Dome Temp./Hum. .....

Comparison Filter Exp	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
600	2140	3"	7.5	KO	CASS CCD	1800/mm 56.35	306μ	6600	21	Vik CB		
4 3									22			
600	2500		"	"					23			
600	2460		"	"					24			
600	2265		"	"					25			
4									26			
									1			
600	2120		"	"					27			
600	2180		"	"					28			
600	2200		"	"					29			
4									30			
600	2023		"	"					7			
600	2010		"	"					8			
600	1760		"	"					9			
4									10			
1									1			

PG #5

15

Date 1997 Sept 14/15 Observers Vnk/Kss/Lu

Emulsion Batches: .....

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CCD Spectr. Temp ..... Focus ..... Spectr. Temp .....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp. Mtr
CC48574	HD197433	20 38 36	75 14 00	03 26 56					600	1530
75	comp							FeAr ND#3	4	
76	comp							"	4	
77	HD214075	22 36 54	56 19 00	03 48 01					1200	1645
78	comp							"	4	
79	~~HD~~ comp							"	4	
80	HD236429	00 24 24	59 40 00	04 15 05					1800	1830
81	comp									
	~~BIAS~~(4)									
	~~flats~~ problem with CCD temp. did not do flats after topping up							Tung ~~ND#5~~	~~4~~	
82/88	flats							Tung ND#5	4	Slit
89	BIAS(4)									

CCD
Spectr. Temp. ~~-100.6~~ °C -40 Dome Temp./Hum. 14.9°C / 79.6% Transparency Conditions Increasing haze 16

Focus 6.72

Spectr. Temp. ..... Dome Temp./Hum. .....

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
1530				CASS CCD	1800/mm 56,35	306μ	6600	11	Vnk CB		
								12			
								12			
1645		8	F6					13	Vnk Cep		
								14			
		~~10~~						14		< CCD T getting very high >	
1800		10	F7					15	Vnk Cep	clouds passed	
								16		Something strange	
								~~1~~			
								~~5~~			
Slit reinstalled, temperature reset to -100.6°C											
								5			
								1			

17 Pg#1 Mon/Tues

Date ...1997 Sept 15/16 Observers ..[illegible]/..Jn./..44....

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc485 99/91	Inboard 104Board							FeAr ND4	4/6
92	BIAS(4)			1932					
93	Comp							FeAr ND4	45
94	HD187691	194614	+100955	194030					149
95	Comp							"	45
96	Comp							"	45
97	HD203156	21523	+274856	195037					1133
98	comp							"	4
99	comp							"	4
cc48600	HD180583	191159	274459	201631					340
01	comp							"	4
02	comp							"	4
03	HD173297	183224	-204500	202638					1075
04	Comp							"	4
05	BIAS(4)			2045					

CCD Speetr. Temp. −99.7 °C. Dome Temp./Hum. 20.4°C 65%H Transparency Conditions Part Clear 18

Focus 6.70

Spectr. Temp. ..... Dome Temp./Hum. 19.7°C 58.3%H

Exp. Mtr.	Seeing	Pic. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
1000 V no filter				CASCCD By Hand	1800/m 55.0°	306	6396Å	1/4	focus test		
							I 2Å At Row 512	1			
								5			9K
~4000	3"	5.11	F8V					6	std vel	→	4K
								7			
								8			
6000		5.8 -5.9	F2					9	Rm pgm	HR 8157 cloudy	63K
								10			
								10			
3500		6.19	F6 I-II$_b$					11	Rm pgm		
								12			
								12			
880	4"	7.48	G0 I$_b$					13	Rm pgm	part cloudy	
								14			
								1			

19 PgH2 Mon/Tues

Date 1997 Sept 15/16 Observers [Rm]/Tn/Lu

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC48606	Comp							FeAr ND4	4
07	HD222368	233448	+050503	205044					6 3/8
08	Comp							n	4
09/17	FLATS x 9							TUNG ND5	5
18	Comp							FeAr ND4	4
19	HD177724	190049	+135253	215549					5 3/8
20	Comp							n	4
21	BIAS (4)			2123					0
22	Comp							n	4
23	HD30282	044106	+363200	223355		0622E			2 2/9
24	Comp							n	4
25	Comp							n	4
26	HD331970	200827	+323416	232839					2400
27	Comp							n	4
28	BIAS (4)			00 10					0

Spectr. Temp. -99.9°C Dome Temp./Hum. +74°C 5868H Transparency Conditions Cloudy 20

Focus 6.70

Spectr. Temp. ..... Dome Temp./Hum. ..... 400 0 50 10744 1 CLOFAINAX

Exp. Mtr.	Seeing	Pg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				CASS CCD	1800l/m ~5550°	306u	6396Å	14			MAX HOC
2.3K	4"	4.13	F7V					15	std/vel	Moon ~15° away	1.4K
								16			
								2			
								16			
6.4K		2.99	H0Vu					17	Telluric Std	in cloud	6.3K
								18			
								1			
								18			
3.1K	6"	B 7-9-88	F6-G1					19	HW PEP Focal Rm	Lower Finder is The Trees at start	3.5K
								20			8K
								20			
1.7K		V 9-1-98	F8 -G2I6					22	Rm/Sug. R's	1pm MW Cgg	
								23			
								1			

2/PG #3

Date 1997 Sept 15/16 Observers [Rm]/Tn/Lu

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp
cc48629	comp							FeAr ND #3	4
30	HD214975	22 36 54	56 19 00	00 16 53					1200
31	comp							"	4
32	Comp							"	4
33	HD215159	22 38 15	+53 23 00	00 39 43					241
34	Comp							"	4
cc48635	Comp							FeAr ND3	4 ~~150~~
36	CV Cyg	19 54 22 2000	+38 02 30	00 51 12					1200
37	Comp							"	4
38	K/HS (4)			01 15					0
39	Comp							"	4
40	HD236429	00 24 24 1900	59 40 00	01 23 22					1872
41	Comp							"	4
42	Comp							"	4
43	HD209833	22 01 03 1900	+28 28 41	02 01 17					127
44	Comp							"	4

CCD
Spectr. Temp. −99.9°C Dome Temp./Hum. 17.2°C / 58.3% Transparency Conditions clearing partly 22

Focus .....

Spectr. Temp. ..... Dome Temp./Hum. ..... 400 0 50 1024 4 1 CONTINT → 11.AK 10U4

Exp. Mtr.	Seeing	Pkg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				CASS CCD	1800/mm 55.0	306μ	6396	23			
2580		8.4	GOI$_b$					24	Rm Prg	ZLac	
								25			
								25			
3.9K	4"	6.9	K2					26	Rm std for	Z Lac	
				Tgrating	1800/mm 56.35	306μ	6600	27			
315		~11	F8					28	Vnk pgm	cloudy	
								29			
								1			
								5			
2.3K	3"	10?	F7					6	Vnk pgm		7.6K
		VBright	ER					7			
								7			
8K		5.63	B9V$_n$					8	telluric std		5.2K
								9			

23 Rgn 4 Mon/Tues

Date 1997 Sept 15/16 Observers [Vnk]/Lu/Tm/C/[Rm]

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC48645	comp							FeAr ND#3	4
46	HD222368	23 34 48	05 05 03	02 15 04					89
47	Comp							"	4
48	BIAS(4)			02 18					0
49/55	FLATS x7							TUNG ND#5	4
CC48656	Comp							FeAr ND3	45
57	HD44990	06 19 49	+07 08 25	02 44 21					480
58	Comp							"	45
59	Comp							"	45
60	HD203156	21 15 23	+37 48 55	02 59 31					970
61	Comp							"	4
62	BIAS(4)			03 17					0
63	comp							"	4
64	HD25361	03 56 42	58 23 00	03 23 48					446
65	Comp							"	4
66/70	FLATS x5							TUNG ND5	55

Spectr. Temp. −99.9°C Dome Temp./Hum. +15.8°C 64.8%H Transparency Conditions Clearing 2K

Focus 6.70 Then Really cloudy

Spectr. Temp. Dome Temp./Hum. +15.5°C 69%H

Exp. Mtr.	Seeing	Pg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				C455 CCD	1800/m 5635	306	6600Å	10			
6.5K		4.13	F7V					11	stdvel		
								12			
								1			
								5			12K
				Igrating	1800/m 54.89	306a	6396	14		Back to 6396Å close to previous setup	
4.9K	4'6"	B 6.5-8.0	F7 I_{a5}-K1 I_{ab}					15	T mon Rm High priority		
								16			
								16	Kimpgm	HR8157 repeat	
5.3K	5"	5.8 −5.9	F2					17	"	" "	
								18			
								1			
								19			
230		7.30 −8.07	F6 I_b −G2 I_b					20 21			
								2			14K

vs pg#1 Tues/Wed

Date 1997 sept 16/17 Observers L.A./T.M.

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc4867 1/72	Inboard / Outboard		Hartmann					Fehr ND 3	4/7
73	BIAS(4)			19 15					0
74	Comp							"	4
75	HD172487	18 33 42	+43 08 12	19 17 24					274
76	Comp							"	4
77	Comp							"	4
78	HD187691	19 46 14	+10 09 55	19 28 06					134
79	Comp							"	45
80	Comp							"	45
81	RZ Dra	18 23 06 2000	+58 54 18	19 38 49					1201
82	"	"	"	19 59 17					1200
83	comp							"	4
84	BIAS(4)			20 21					0
85	RZ Dra	"	"	22 22 13					1200
86	"	"	"	22 42 46					1201
87	comp							"	4

CCD Spectr. Temp. −101.0 °C * Temperature adjustment not too stable. Dome Temp./Hum. +18.0°C 63.8%H Transparency Conditions Fine 26

Focus 6.70

Spectr. Temp. ..... Dome Temp./Hum. +17.0°C 71.9%H (cp) 400 050 1024 41 CCDFMT

Comparison Filter Exp	Exp. Mtr.	Seeing	Pg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
3 A/1	1000Y no filter				CASSCCD Imaging →	1800u 47.06	30u	5184Å	3/4	focus test	~ max ADU	
0									1			
4									5			
7A	3.2K	3"	B 6.26	F0V					6	B/n pgm	Also encolor mosaic star.	26K
4									7			3.4K
4									7			
18A	3.4K		5.11	F8V					8	std vel		2K
4s									9			
4s									9			
120	394		10	A5					10	CB		
120	427		"	"					11			
4									12			
0			"						1			
120	436	2"-3"	"	"					13			
12A	465	"	"	"					14			
4									15			

27 pg #2 Tucs/Wal

Date 1997 Sept 16/17 Observers Lu/Tn

Emulsion Batches:

Plate No.	Object	R.A. 1900 (2000)	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	CCD Spectr. Temp.
cc48688	RZ Dra	18 23 06	58 54 18	21 09 47					1200	485
89	"	"	"	21 25 22					1200	471
90	Comp							Feather ND3	45	
91	BIAS(4)			21 47					0	
92	RZ Dra	"	"	21 48 16					1211	431
93	"	"	"	22 08 49					1282	446
94	comp							"	"	
95	RZ Dra	"	"	22 32 00					735	270
96	Comp							"	4	
97	Comp							"	4	
98	HD 214946	22 36 42	44 29 00	22 51 42					800	731
99	comp							"	4	
CG81115/18	HD214946	"	"					4x	67mx	
19/22	DH&KS							4x	67m	
23/24	"							2x	133	
25/26	HD 214946							"	"	

CCD
Spectr. Temp. −101.0°C Dome Temp./Hum. +16.8°C 74.0%H Transparency Conditions Hazy 9

Focus 6.70

Spectr. Temp. Dome Temp./Hum.

Comparison Filter	Exp	Exp. Mtr.	Seeing	Pix. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	1200	485	2"	10	A5	C455 CCD	1800 l/mm 47.06	306μ	5184Å	16			
	1200	471		"	"					17			
	45									18			
	0									1			
	1211	431		"	"					19			
	1282	446								20		increasing cloud	
	U									21			
	755	270	2"	"	"					22		too cloudy	
	4									23			
	4												
	500	931		B 7.26	A5					24	B/n SB	and seeing test object	
	4									25			
				"	"		Above	306μ	Slit		Seeing	Test	

9 193

Emulsion Batches:

Date 1997 Sept 16/17 Observers AA/JTa

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC4870	Comp							FeAr 1403	4s
01	HD 222368	23 3448	+050503	231844					291
02	comp							"	43
03	BIAS(4)			2325					0
04/10	flats							Tung ND #4	4
11	comp							FeAr ND 3	4
12	SV Equ	20 57 19 2000	05 4852	00 35 02					1421
13	Comp							"	4
14	BIAS(4)			01 00					0
15	Comp							"	4
16	CN And	00 20 30 2000	+401336	01 10 40					120
17	"	"	"	01 31 23					120
18	comp							"	4
19	CN And	"	"	01 53 16					687
20	comp							"	4
21	BIAS(4)			02 06					0

CCD
Spectr. Temp
Focus ... 6
Spectr. Temp

Exp. Mtr. | Sc

CCD Spectr. Temp. −101.0°C ..... Dome Temp./Hum. +16.3°C 81.2% Transparency Conditions ..... cloudy → thin cloud

Focus .... 6.70 .....

Spectr. Temp. ..... Dome Temp./Hum. +15.2°C 83% 30

Comparison Filter	Comparison Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	4					CHSS	1800u	306u	5184Å	25			
	291	2K		4.13	F7V					26	Std vel	in cloud near Full moon	
	45									27			
	0									1			
	4									2			
	4									5			
	142	900	3-5"	9.0	A0					6			
	4									7			
	0									1			
	4									7			
	140	648	3-5"	10	F5					8			
	120	610		"	"					9			
	4									10			
	68	360		"	"					11		cloudy	
	4									12			
	0									1			

31 page 1 Wed / Thurs

Date 1997 Sept 17/18 Observers LA / TA

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC4872	22/23 Inboard / out Board							FeA NO3	4/7
24	Comp							"	4s
25	HD 172187	18 33 42	+73 08 12	19 15 43					344
26	Comp							"	4s
27	BIAS (4)			19 23					0
28	Comp							"	4s
29	HIP87541	17 53 04 (2000)	+77 23 02	19 33 36					1226
30	Comp							"	4
31	Comp							"	4
32	HD 191804	20 06 42 (1900)	+70 21 00	19 58 59					480
33	Comp	for next star only						"	4s
34	HD 191401	20 04 06	-25 55 00	20 16 40					783
35	comp							"	4
36	BIAS (4)			20 31					0
37	Comp							"	4s

CCD
Spectr. Temp
Focus ... 6
Spectr. Temp

Exp Mir | Sc
43K | 4
820 | 4
1140
1500

CCD
Spectr. Temp. −101.5°C * Dial (New Dial) set at 5.1
Dome Temp./Hum. +18.0°C 74824 Transparency Conditions clearing nicely 32
Focus 6.7.0
Spectr. Temp. Dome Temp./Hum. 400 0 50 1024 4 1 CCDFAST

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				CHSCCD	1800/in 4706	30μ	5184A	3/4	Focus Test	unchanged from last night	
								5			
43K	4-5*	B 6.26	F0V					6	B/4 SB		
								7			
								1			
								8			
820	4-6*	V 9.4	F2					9		sharp lined	
								10			
								10			
1190		7.8	F0					11	HIP 99037	broad lined.	
								12			
1500		7.2	A9III					13	HIP 99365	broad lined,	
								14			
								1			
								15			

33 pg#2 wet / Times

Date . 1997 Sept 17/18 Observers . L.u./.Tn.....

Emulsion Batches:
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Plate No.	Object	R.A. ~~1900~~ 2000	Declination ~~1900~~	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp Mtr
CC48738	HIP92699	185317	+211332	20 37 28					960	508
39	comp							He Ar NO3	4s	
40	comp							"	4s	
41	SVEqu	205719	+054852	20 59 26					1200	775
42	Comp							"	4s	
43	Comp							"	4	
44	HD187438	194448	-085200	21 24 46					900	905
45	Comp							"	4	
46	BIAS(4)			21 41					0	
47	comp							"	4	
48	HD197100	203624	603300	21 47 52					800	1500
49	comp							"	4	
50	comp							"	4	
51	HD210431	220518	715300	22 08 13					360	1760
52	comp							"	4	

CCD Spectr. Temp. −101.0°c Dome Temp./Hum. +16.7°C 76.7%H Transparency Conditions Fine 34

Focus 6.70

Spectr. Temp. ..... Dome Temp./Hum. ..... 400 0 50 1024 91 CCDFMT

Exp. Mtr.	Seeing	Pig Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
508	4"	9.8	A7	CASSCCD	1800l/m	306u	5184Å	16		moderately broadened	
								17			
								17			
775	3-4'	9.0	A0					18			
								19			
								19			
900		8.1	A2					20	HIP97600		
								21			
								1			
								21			
1500	4"	8.5	F8					22	HIP101862	slightly broadened	
								23			
								23			
2760		7.0	A0					24	HIP109191	broadened.	
								25			

35 pg #3

Date 1997 Sept 17/18 Observers L+J/Tn

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp Mr	Seeing
cc4875 3	Comp		2000					FEA NO3	4s		
54	EL Aqr	234719	-080504	22 23 17					1200	450	46"
55	"	"	"	22 43 33					1200	382	
56	comp							"	4		
57	BIAS(4)			23 05					0		
58	EL Aqr	"	"	23 07 03					1200	358	
59	comp							"	4		
60	comp							"	4		
61	HD222368	23 34 48	05 05 03	23 32 17					70	5K	
62	comp							"	4		
63	comp		2000					"	4		
64	CN And	00 20 30	40 13 36	23 42 05					1000	575	
65	"	"	"	23 59 37					1000	622	
66	comp							"	4		
67	BIAS(4)			00 18					0		

Spectr. Temp. ..... Dome Temp./Hum. +15.5°C 82%H Transparency Conditions ... Fine ..... 36.

Focus ... 6.70 .....

Spectr. Temp. ..... Dome Temp./Hum. .....

Comparison Filter	Comparison Exp.	Exp. Mtr.	Seeing	Pg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	4s					CASSCCD	1800 l/mm 4706	306u	5184Å	25			
	1200	400	4°6'	10.35	F					26			
	1200	382		"	"					27			
	4									28			
	0									29			
	1200	358		"	"					29			
	4									30			
	4									5			
	70	5K		4.13	FW					6	std vel		
	4									7			
	4									7			
	100	575		10.0	FS					8			
	1000	622		"	"					9			
	4									10			
	0									1			

51 pg#4 Wed / Thurs

Date 1997 Sept 17/18... Observers L.A./T.M.....

Emulsion Batches:
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Spectr. Temp.
Focus 6.7
Spectr. Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp. Mr	See
CC48768	comp							~~HeA~~, NO#3	4		
69	SV Equ	20 57 19 (2000)	05 48 52	00 22 14					1200	687	
70	comp							"	4		
71	Comp							"	4		
72	HD 37655	00 35 58 (1900)	39 40 00	00 58 02					363	1806	5
73	Comp							"	4		
74	Comp							"	4		
75	HD 6953	00 06 11 (1900)	-16 01 01	01 09 44					204	5K	
76	Comp							"	4		
77/83	FLATS x 7						-16°	TUNG ND4	4		
84	Comp							Feat ND3	4		
85	HD 22484	03 31 46	00 05 04	01 25 32					417	5.5K	
86	Comp							"	4		
87	Comp							"	4		
88	HD 14252	02 13 09	+28 10 52	01 32 47					184	6K	
89	Comp							"	4		

Spectr. Temp. −101.3°C ..... Dome Temp./Hum. +14.7°C 81.2% H Transparency Conditions ..... Fine 38

Focus .... 6.70 .....

Spectr. Temp. −101.0°C ..... Dome Temp./Hum. +14.7°C 82.0% H

Comparison Filter Exp.	Exp. Mtr.	Seeing	Pig. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
4					CHSS	1800 l/m 47.06	30μ	5184	10			
1200	687		9.0	A0					11			
4									12			
4									12			
363	1806	5"	7.36	dk5					13	Std Vel	OH, Tried again to	1.5K
4									14		Get TV guidee for Seeing Tests no go.	2K
4									14			
24	5K		4.89	FG V					15	std vel		4K
4									16			
4									2			11K
4									17			
117	5.5K		4.28	F9 IV-V					18	std vel		4K
4									19			
4									19			
184	6K			A2					20	std vel		4.9K
4									21			

39 PSHS

Emulsion Batches:

Date 1997 Sept 17/18 Observers Lu/Tn

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc48790	Comp							FEA ND3	4
91	AA Cet	01 59 00	-22 55 12	01 41 27					915
92	"			01 58 33					600
93	comp							"	4
94	BIAS(4)			02 11					0
95	AA Cet	"	"	02 12 48					760
96	comp							"	4
97	comp							"	4
98	UX Eri	03 09 52	-06 53 24	02 30 31					1050
99	"	"	"	02 49 23					1000
cc48800	comp							"	4
01	Comp							"	4
02	BV Eri	03 51 53	-10 31 53	03 11 15					840
03	"	"	"	03 25 58					848
04	Comp							"	4
05	BIAS(4)			03 44					0

Spectr. Temp. −100,2°C Dome Temp./Hum. 7 14.3°C 80.4%H Transparency Conditions Fine 40

Focus 6.70

Spectr. Temp. −101.4°C @ 03 EST Dome Temp./Hum.

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
						306	5184?	01			
2000		6.7	A7 & 8					22	SE and brighter (slightly)		
1428			F-G					23	NW		
								24			
								1			
1500		6.7	A7/A8					25	SE		
								26			
								26			
251	6-8"	10.6	F8					27			
259		"	"					27			
								28			
								28			
1160	6"	8.6	F2					29			
1170								6			
								7			
								1			

41 pg#6

Emulsion Batches: 1 —

Date 1997 Sept 17/18 Observers A.A.F.T.

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC48806	Comp							Feth #103	4s
07	HD48843	06 4017	+124752	034712					730
08	Comp							"	4s
09	Comp							"	4s
10	BV Eri	035153	−10 31 43 (2000)	04 20 28					900
11	"	"	"	043557					900
12	Comp							"	4s
13	BV Eri	"	"	045225					900
14	"	"	"	050816					730
15	Comp							"	4
16	IS/HS(4)			0521					0
17	~~Comp~~							Feth #103	4s
	HD48843								
	Comp								

CCD
Spectr. Temp.
Focus ... 67
Spectr. Temp.

Exp Mir	Se
5K	6
1470	
1440	
1430	
1556	

CCD
Spectr. Temp. −101.4 °C Dome Temp./Hum. +13.7°C 79.6%H Transparency Conditions Fine 42

Focus 6.70

Spectr. Temp. ..... Dome Temp./Hum. +13.5°C 79.0%H

Comparison Filter	Comparison Exp	Exp. Mtr.	Seeing	Pt Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	4s					C455CCD	1800/m	306μ	5184Å	7			
	731	5K	6"	646	A9III					8	std bel use	Fekel std	
	3									8			
	4									9			
	900	1470		8.6	F2					10			
	911	1440		"	"					11			
	4									12			
	900	1430		"	"					13			
	720	1556		"	"					14			
	4									15			
	5									1			
2	4									1			

43 Special Sequist Tour

Thurs / Fri Looked @ Ring Nebula

Date 1997 Sept 18/19 Observers MK / Jn

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC488 17/18	Inbound / Outbound							Fat ND3	4/7
19	Comp							"	4
20	BD+59 389	01 37 34 2000	+60 36 15	01 48 54					1252
21	Comp								4s
22	BIAS (4)			02 17 04					
23/27	FLATS x5							JUNG ND4	4s
28	Comp							Fat ND3	4
29	HD 224484	22 46 1900	+00 05 04	02 55 17					10/8
30	Comp							"	4s
31	HD 224484	"	"	03 14 15					45
32	Comp							"	4s
33	BIAS (4)			03 23					0
34	Comp							"	4s
35	HD 48843	06 40 17	+12 47 52	03 30 08					762
36	Comp							"	4s
37	BIAS (4)								

CCD Spectr. Temp

Focus 6

Spectr. Temp

Exp. Mtr

CCD But I had adjusted DIHL TO 50
Spectr. Temp. −107.0 °C Dome Temp./Hum. +17.7°C 67.0% Transparency Conditions ... Part ... Cloudy ... 4K.

Focus .... 6.70 .....

Spectr. Temp. ..... Dome Temp./Hum. +16.5°C 71.6% CD 400 0 50 102441 CCDEMIT

Comparison Filter	Comparison Exp	Exp. Mtr.	Seeing	Pg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	4/7					CASS CCD Tgrating⇒	1800 l/m 4706	30µ	5184Å	3/4	focus test	↑ MAX ADU	
	4									5		i listed NW in Excalibur F.O	
	1752	409	2"	max is 10.1	Am					6		NE of pair sgn'l	
	45									7		Δα +00 00 07 Δδ −00 00 15	
										1			
	48									2			143K
	4									9			
	1548	1.7K	2"	428	F9 IV-V					10	Std vel	very cloudy with bright moonlit sky	
	47									11			
	453	2.5K	2"	"	"					12	Std vel	is semi clear now	
	4									13			
	0									1			
	43									1			
	1553	1930	3"	649	A9 IV					16	std vel	use from Litzinger	
	3									17			
										1			

PG #1 Tues/Wed

45 Date ..1997 Sept 23/24 Observers [KK]/In/Ly....

Emulsion Batches:
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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CF01763	BIAS(4)			1913					
64/65	~~Comp~~ Inb/out							ND 2	2s
66	Comp			19 5551				FeNe ND 52	2s
67	HD 222368	23 34 48	+05 05 03	19 5806					771
68	Comp							"	2s
69	HD 222368	"	"	20 26 20 edit time.					1704
70	BIAS(4)			2058					0
71	Comp			2105				FeNe ND 2	2s
72	HD 37112	00 34 50	55 59 20	210749					900
73	"	"	"	21 24 12					1451
74	Comp							"	2s
75	HD 37112	"	"	21 52 05					1801
76	comp							"	2s
77	BIAS(4)			2225					0
78	HD 37112	"	"	22 31 22					1965
79	Comp							"	2s

CCD
Spectr. Temp. −101.3°C In instrument Room
Dome Temp./Hum. +11.0°C 64%H Transparency Conditions Part Cloudy 96
Focus .238 still
Note we feel we are only getting ~4% of July's system throughput.
Spectr. Temp. ..... Dome Temp./Hum. ..... CD 0 0 512 1024 2 1 CCOFMT

Exp. Mtr.	Seeing	Pix. Mag.	Sp.	Inst. ~~Echelle~~ RC:00 tilt	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
				Fiber fed echelle	1800/0300 λ5795	Fiber Hole	6300Å	1			
								2/3			
Apparent inboard looked weak and Broad. ??								2	focus Test Attempt.	~12K	
10K		4.13	F7V					3	stalled	only 4 ADU above background.	
								2			
26K	8"							Restart in 2		> 10 ADU above background	
								1			
								1			11.3K
131K	5"	2.23	K0 III a					2	stalled (SOAT OF)	~ 70 ADU above background	
207K								3			
								1			11.7K
235K		4	"					2			
								1			
								1			
241K		4	"					2			
								1			11.6

CFT Pg#2 Tues/Wed

Date 1997 Sept 23/24 Observers [KK]/Lu/Tn

Emulsion Batches:

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Spectr. Temp

Focus .....

Spectr. Temp

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp. Mtr.
CF01780	HD3712	00 34 50	55 59 20	23 08 51				CASS SOLARES	1800	
81	Comp							FeNe ND2	2s	
82	HD3712	"	"	23 42 59					1586	
83	Comp			00 12				"	2c	
84	BIAS(4)			00 13					0	
85	HD8890	01 22 34	+88 46 26	00 25 30					1382	
86	Comp							"	2s	
87	HD8890	"	"	00 53 23					1545	
88	Comp							"	2	
89	BIAS(4)			01 26					0	
90	FLAT							JANC NO 1	900	
91	comp							FeNe ND 2	2	
92	HD3712	00 34 50	55 59 20	01 56 20					1493	
93	Comp							"	2	
94	~~FLAT~~ Comp			02 57				"	2	

Spectr. Temp. −101.3°C Dome Temp./Hum. 7.4°C / 70.3% Transparency Conditions haze 48

Focus 238 some cloud.

Spectr. Temp. ..... Dome Temp./Hum. ..... 0 0 512 102421 CCD FLAT

Exp. Mtr. Reading	Seeing	Pig Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
105 exp 216K meter	5"	2.23	KO IIIa	Echelle FF	18.00/300/m ×5.75	~~90a~~ Fiber 466	6300Å	3			
								1			10.5K
220K								2			
								1			
								1			
219K	5"	2	F					3	1S	Δλ +00 12 21 −00 00 03	
								1			
217K		"	"					3			
								1			
								1			
								1			7K
								1			
220K	3"	2.23	KO IIIa					2			
								1			
								1			

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P93

Date .... Sept. 23/24 Observers .....

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CF01795	BIAS(4)			02 59					
	HD3712								

Spectr. Temp. ..... Dome Temp./Hum. 5.5°C 77% H Transparency Conditions Fine 50

Focus 1.238

Spectr. Temp. ..... Dome Temp./Hum. .....

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
							6300Å	1	CCD STARTING TO warm up		
						FF Hole		2	:: Topped up.		
							Copied HH TO m:\		CCD FIBERFED.		

51

Date 1997 Sept 24/25 Observers [KK]/Vnk/Lu

Emulsion Batches:
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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp
CF01796	flat								
97	BIAS(4)			1931					
98	comp							FeNe ND 4	4
99	HD222368	23 34 48	05 05 03	1951 59					1200
CF01800	comp							"	4
01	comp							"	4
02	HD197963 A	20 42 00	15 45 49	20 30 05					1800
03	comp							"	4
04	BIAS(4)			2105					0
05	HD197963 B(4)	"	"	21 12 42					2100
06	comp							"	4
07	comp							"	4
08	HD213051 A	22 23 41	-00 31 53	22 01 09					1800
09	comp							"	4
10	BIAS(4)			22 37					0
11	HD213051 B(2)	"	"	22 41 37					2100

CCD
Spectr. Temp. −100.3°c Dome Temp./Hum. 12.3°c/63.7% Transparency Conditions ... partly cloudy ... 52
Focus ... 23.8 ...
Spectr. Temp. ... Dome Temp./Hum. ...
→ haze

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				echelle FF	1800 x 0300 x.5795	Fibre hole	6300		Karl did the flat.		
								1			
								2			14K
39.7K	6"	4.13	F7V					3	Vel std		40 ADU
								2			
								2			13.9K
94K	4"	4.5	K1 III					3	KK		160
								3			14K
								1			
44K		5.5	F7V					2	KK		
								3			
								3			
60K	6"	4.31	F3V					2	KK	very difficult to separate.	
								3			
		~~4.31~~	?					1			
46K	6"-8"	4.51	?					2	KK		

53

Date 1997 Sept 24/25 Observers [KK]/Lu

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp
CF01812	comp							FeNe ND #4	4
13	comp							"	4
14	HD 46154 (A)	00 43 03	57 17 06	23 36 41					1250
15	comp							"	4
16	BIAS (4)			00 09					
17/19	flats							Tung ND 1	
20	Comp			08 12				FeNe ND #4	4
21	dark — no room lights								60
22	dark — full room lights			08 15					60
23	ThAr comp			08 29				ThAr	2

CCD
Speetr. Temp. −100.3°C Dome Temp./Hum. 10.2°C/70.8% Transparency Conditions ... fine — a little haze ... 5K

Focus ... 0.238 ... changa fast.

Spectr. Temp. ... Dome Temp./Hum. ...

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				echelle ff.	1800x0300 x·5795"	Fibre hole	6300	3			15K
								3			
71K	4"	3.45	90V					2	KK	cloudy	
								3			12.8K
								1			
								2			2.5K

close down due to (1) cloudy

(2) no safety backups!

[instrument no quite right]

55 PG #1

Date 1997 Sept 25/26 Observers Kess/Vnk/Mki/Lu

Emulsion Batches:
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.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CE1454/1	Inboard/outboard							ThAr	3/2
48	flat							Tung	2

LCD

Spectr. Temp. −119.8°C Dome Temp./Hum. 12.9/87.7 Transparency Conditions cloudy 56

Focus .....

Spectr. Temp. ..... Dome Temp./Hum. .....

dome closed. [do tests]

00 256 1024 4 1

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				Echelle 19, 45				1/2			

Comparison Filter Exp.

Av 3/2

ng 2

PG #1

57 1997 Sept 26/27

Date ..... Observers K-ss/VnK/Lu

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CE14549	BIAS(4)			19 36					
50	comp							ThAr	2
51	HD187929	194723	00 44 56	19 49 01					300
52	comp							"	2
53	comp							"	2
54	HD163506	17 51 23	26 03 57	20 07 28					1200
55	comp							"	
56	Comp							"	2
57	HD177724	19 00 49	13 42 53	20 36 28					420
58	comp							"	2
59	BIAS(4)			20:46					
60	comp							"	2
61	HD 187691	15 46 14	10 00 55	20 54 48					900
62	comp							"	2
63	comp							"	2

CCD
Spectr. Temp. −100.5°C Dome Temp./Hum. 8.7°C / 70.7 Transparency Conditions Clear 58

Focus 229

Spectr. Temp. ..... Dome Temp./Hum. 0 0 256 1024 4 1

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				echelle 19.45	Note sept 29 Tm (must be the 300 l/mm cross grating)	g_{UV} = 265 g_{IR} = 235	6300	1			
								2			
7		3.5	F-G					1			
								2			
								2			
11		5,5	F					3			
								2			
								2			
18		2	A					3			
								2			
								1			
								2			
30		5	F					3			
								2			
								2			

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Page #2

Date 1997: Sept 26/27 Observers Kim/Vnk/Lee

Emulsion Batches:
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.....
.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CE14564	HD 176155	18 53 48	17 13 35	21:18:35					1180
65	Comp							ThAr	2
66	Comp							"	2
67	HD 188727	19 51 29	16 22 11	21:45:33					1200
68	Comp							"	2
69	BIAS(4)								
70	Comp							"	2
71	HD 197572	20 39 29	35 13 38	22 13 49					1800
72	Comp							"	2
73	Comp							"	2
74	HD 198726	20 47 13	27 52 32	22 45 01					1200
75	Comp							"	2
76	Comp							"	2
77	HD 201078	21 02 18	30 47 01	23 14 36					1200
78	Comp							"	2

CCD

Spectr. Temp. -100.3 Dome Temp./Hum. 8.1/73.1% Transparency Conditions clear 60

Focus 229

Spectr. Temp. ..... Dome Temp./Hum. .....

Comparison Filter	Comparison Exp	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	180	50		5.5	F-G	Hamamatsu #1				3		high voltage for PMT (1300V)	
W	2									2			
	2									2			
	120	57		5.5	F-G					3			
	2									2			
										1			
	2									2			
	180	50		6.1	F-G					3			
	2									2			
	2									2			
	120	56		5.7	F-G					3			
	2									2			
	2									2			
	120	5011-51		5.5	F-G					3			
	2									2			

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Page #3

Date 1977 Sept 26/27 Observers Kim/Nuk/Lu

Emulsion Batches:
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.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CE14579	BIAS(4)			23:36					
80	Comp							Plate	2
81	HD203156	211533	574855	234125					1200
82	Comp							"	2
83	Comp							"	2
84	HD213307	222524	575300	000825					720
85	Comp							"	2
86	Comp							"	2
87	HD17463	024303	682827	003511					1800
88	Comp							"	2
89	BIAS(4)								
90	Comp							"	2
91	HD30282	044106	363200	011221					1780
92	Comp							"	2
93	Comp							"	2

Spectr. Temp.
Focus
Spectr. Temp.

Exp Mtr	Se
50	
71	
56	

CCD
Spectr. Temp. -100.3 Dome Temp./Hum. 7.4/75.5% Transparency Conditions clear 62

Focus 225

Spectr. Temp. ..... Dome Temp./Hum. .....

some clouds after 0:00 EST

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				the same as #1				1			
								2			
50		5.3	F-G					3			
								2			
								2			
71		4	F-G					3			
								2			
								2			
60		6.0	F-G					3			
								2			
								1			
								2			
46		1.5	F-G					3			
								2			
								2			

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Page #4

Date 1997 Sept 26/27 Observers Hmf/Vdl/Ler

Emulsion Batches:
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.....
.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp. Mtr
CE14594	HD32456	04 58 18	55 13 00	01:54:00					1800	-3
95	Comp							Th Ar	2	
96	BIAS(4)			02:26						
97	Comp							"	2	
98	HD 29260	04 31 24	18 20 00	02:33:33					1500	1/4
99	Comp							"	2	
CE14600	Comp							"	2	
01	HD 45412	06 22 08	30 33 13	03:05:58					1200	01
02	Comp							"	2	
03	Comp							"	2	
04	HD 44990	06 19 49	07 08 25	03:32:16					1200	
05	Comp							"	2	
06	BIAS[4]			03:55						
07	Comp							"	2	
08	HD 52973	06 58 11	20 43 02	04:01:23					500	02
09	Comp							"	2	

Spectr. Temp.
Focus
Spectr. Temp.

(1) Spectr. Temp. -100.3 Dome Temp./Hum. 7.2/81.1% Transparency Conditions little hazy 64

Focus -229

Spectr. Temp. Dome Temp./Hum.

Comparison Filter	Comparison Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	1200	43		7.5	F-G	the same as #1				3			
Hr	2									2			
										1			
	2									2			
	1500	44		6.8	F-G					3			
	2									2			
	2									2			
	1200	61		5.4	F-G					3			
	2									2			
	2									2			
	1500			6.5	F-G					3			
	2									2			
										1			
	2									2			
	500	102		3.	F-G					3			
	2									2			

Page #5 65

Date 1997 Sept 26/27 Observers Kim/Nut/Lu

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CEM610 PTS	Comp							Th Ar	2
11	HD2207	00 20 54	50 43 00	04:21:12					1600
12	comp							"	2
13	BIAS(4)			05:01					
14-20	FLATS							Tung.	1

CCD
Spectr. Temp. -100.2 Dome Temp./Hum. 6.9 / 82.2% Transparency Conditions clear again 6.6

Focus 2.29

Spectr. Temp. Dome Temp./Hum.

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				the same as #1				2			
		7	P-G					3		CCD temp getting higher to -95.5	
								2			
						4		1		after the topping up	
					H=.230		Tu od 1	2			

67 pg#1 Wed/Thurs

Date 1997 Oct 1/2 Observers GH/JT

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp
CC48838/39	Inboard/outboard	Hartmann						Fe-Ar NO4	9/6
40	BIAS(4)			18 44					0
41	Comp							Fe-Ar NO5	4s
42	HD 175865	18 52 18	+34851	18 47 24					23
43	Comp							"	4s
44/45	FLATS x2							TUNG NO5	4s
CC48846	Comp							Fe-Ar NO3	4s
47	HD 201891	21 07 24	+17 21 00	19 09 04					193
48	Comp							"	4s
49	BIAS(4)			19 19					0
50	Comp							"	4s
51	HD 208906	21 54 18	+19 21 00	19 23 58					378
52	"	"	"	19 32 04					366
53	Comp							"	4s
54	Comp							"	4

Spectr. Temp. −100.3°C Dome Temp./Hum. ~~7~~ 5°C 55%/H Transparency Conditions ~~Part Cloudy~~ 68

Focus 6.77

Spectr. Temp. Dome Temp./Hum.

Note - since Blue collimation Replacement no change really and CCD RG installed Today CCDTEMP now 404 0 50 1024 4 1

Exp. Mtr.	Seeing	Pix. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
~~Not Used~~ 1000 U				~~Eastman~~ CASSCCD ~~1945~~	~~0300 Tot/mm~~ ~~583~~	~~10u - 265~~ ~~300u - 235~~		3/4		Note 3c197 Tm Plate date not entered focus test ~6.8°C dropping fast	
				T grating → 5435			6600Å	1			
								5			
4K								6	Just nonAgglutination stars		
								7			
								8			
				T grating	1800 lines/mm 4706		5184Å	10			
1473	5"	~7	F					11		Is focus a bit negative Auction Star ≈ 5 Arcmin North South	
								12		check Field And encoder Log to be sure.	
								1			
								13			
1672		~7						14			
i 1800								15			
								16			
								17			

69 Pg #2 wed/thurs

Date 1997 Oct 1/2 Observers Gld. I.Tn

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC48855	HD165908	18 0314	+30 3257	194726					223
56	Comp							FeAr ND3	4s
57	comp							"	4s
58	HD 194084	20 4252	+57 1315	20 00 27					12s
59	comp							"	4s
60	BIAS(4)			2007					0
61	Comp							"	4s
62	HD204978	21 4802	+58 1931	201442					370
63	Comp							"	4s
64	Comp							"	4s
65	HD 2454	00 2310	+09 3832	202613					839
66	Comp							"	4s
67	Comp							"	4s
68	HD 3268	00 3044	+42 3940	20 4415					
69	Comp							"	4s
~~70~~	~~BIAS (4)~~								

CCD

Spectr. Temp. −101.1°C Dome Temp./Hum. +5.6°C 66.1%H Transparency Conditions Fine ?°

Focus 6.77

Spectr. Temp. ..... Dome Temp./Hum. +4.7°C 70.7%H

404 0 50 1024 41 CCDFMT

Exp. Mtr.	Seeing	Pig. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
1000V Not Hea 6K	5"	~5	FV	CHSSCCD + grating →	1800 l/mm 47.06	306u	5184Å	18			4K
								19			
								20			
6K.	5"	~5.6	FV					21			
								22			
								1			
								23			
6.8K		5.5						24			3.6K
								25			
								26			
6.8K	~5-10"	5.2						27			3.3K
								28			
								26			
6.6K		6.4						29			
								30			
								1			

71 pg#3

Date 1997 Oct 1/2 Observers Gld./T.G.

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC48870	fls Comp							RA ND3	4s
71	HD10307	01 35 42	+420642	21 05 08					
72	Comp							"	4s
73	Comp							"	4s
74	HD9826	01 30 56	+405419	21:15 27					
75	Comp							"	4s
76	BIAS(4)			21 19					0
77	Comp							"	4s
78	Vesta	1997.8 01 59 35	-001519	21 25					
79	Comp								4s
80	comp							"	"
81	HD177724	19 00 49	+134253	21 48 46					60s
82	Comp							"	4s
83/88	FLATSx	6						TUNG ND3	4s
89	BIAS(4)			21 54					0

Spectr. Temp. ..... Dome Temp./Hum. ..... Transparency Conditions ... Fine 72

Focus ..... 677 .....

Spectr. Temp. ..... Dome Temp./Hum. 11.2°C 73% RH (404 0 50 1024 4 1 CCOFMT)

Exp. Mtr.	Seeing	Pl. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
						306	5184Å	30			
9.2K								6			
								7			
								7			
6.6K	8"							8			
								9			
								1			
								10			
		6.5	G					11		Δα c/study −00 00 31.5 Δδ −00 01 57	
								12		star SE similar S.T. but much fainter	
								16			
11K			A					17	夏	telluric std.	
								18			
								2			133K
								1			

73 pg 64

Date 1997 Oct 1/2 Observers G.L. / T.S.

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC 4886 90/91	Inbound / Outbound							FEAT NO 4	4/6
92	Comp							"	4s
93	HD 166908	18 03 14	+30 32 51	22 24 15					90
94	Comp							"	4s
95	BIAS (4)			2228					0
96	Comp							"	4s
97	HD 201891	21 07 24	+17 21 00	22 32 03					
98	comp							"	4s
99	comp							"	4s
700	HD 199064	20 42 52	57 13 15	22 50 01					75s
01	comp							"	4s
02	comp							"	4s
03	HD 206906.	21 54 16	+29 21 00	23 00 42					360
04	comp							"	4s
05	comp							"	4s

Spectr. Temp. ..... Dome Temp./Hum. ..... Transparency Conditions ... Cloud coming from NW..

Focus ... 7.00 .....

Spectr. Temp. ..... Dome Temp./Hum. 74

+55 0 50 1024 4 1 CCOFMT

Exp. Mtr.	Seeing	Pg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
not flat				CASS Tgrating → 27.0	600 l/mm	306a	~5130	1/2	focus test		
								5			
21K								6			6K
								7			13K
								1			
								8			
	4" ~7	F						9			
								10			
								10			
2K								11		clearing in	
								12			
								13			
2K.								14			
								15			
								16		only light haze	

15 Pgms

Date 1947 Oct 1/2 Observers Gld/Tn/Mki

Emulsion Batches:
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.....
.....

Spectr. Temp
Focus .....
Spectr Temp

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp Mtr	Sc
06	HD 207978	21 48 02	+28 19 31	23 11 05					157s	2.5k	
07	comp							FCAT ND 4	4s		
08	comp							"	4s		
09	HD 2454	00 23 10	+09 38 32	23 23 04					292	2k	
10	comp							"	4s		
11	comp							"	4s		
12	HD 3268	00 30 44	+12 39 40	23 32 20					440	2.6k	
13	Comp							"	4s		
14	BIAS (4)			23 41					0		
15	Comp							"	4s		
16	HD 10307	01 35 42	+42 06 42	23 45 21					147	2.5k	5
17	Comp								4s		
18	Comp							"	4		
19	HD 9826	01 30 56	+05 44 19	23 51 02					74s	2.9k	
20	Comp							"	4		
21	BIAS (4)			23 54					0		

Spectr. Temp. ..... Dome Temp./Hum. ..... Transparency Conditions ..... hazy 76

Focus ..... 7.00 .....

Spectr. Temp. ..... Dome Temp./Hum. ~~13.5°C~~ ~~75.5%~~ 11

455 0 SD1024 41 CCD ~~1~~

Comparison Filter	Comparison Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	15	2.5k				Tytn-mg->	600/m 270°	306μ ~	5/30	17		2 max	
AT	4	—								18			
	45									19			
	292	2k								20			
	45									21			
1	45									21			
	472	2.6k								22			7k
4	4.									23			
	0									1			
1	45									23			
	142	2.8k	5"							24			7.2k
	45									25			
1	4									25			
	773	2.9k								26			
n	4									27			
	1									1			

77 pg#6

Date 1997 Oct 1/2 Observers Gld/Tul/Mki

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC48922	Comp							Fea ND24	4s
23	HD3765	00 35 18	+39 40 00	23 58 36					45s
24	Comp							"	4s
CG81127/30	HD3765								
31/33	Darks x4								
34/35	DARKS x2								133s
36/37	HD3765 x2								133
			1997.8						
CC98925	Comp							Fea ND9	4s
26	Vesta	01 58 56	-00 16 15	00 23 52					500
27	Comp							"	4s
28/33	FLATS x	6						JUNG ND5	4s
34	BIAS(4)			00 41					0

Spectr. Temp
Focus
Spectr. Temp

Exp Mtr.	S
1200.	
1.6K	

Spectr. Temp. ..... Dome Temp./Hum. ..... Transparency Conditions ...Clouding in.....

Focus .....7.00.....

Spectr. Temp. ..... Dome Temp./Hum. +3.3°C 76.6%H

78

Comparison Filter	Comparison Exp.	Exp. Mtr.	Seeing	Pg/Mag.	Sp.	Inst.	Grating/Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
	4s						600/m	306μ	5130Å	5			
	45	1200.		7.36	dk5					6	stdvel		
	4s									7			
							1Kave	306μ	slit		Seeing Test	+ HLT 86°	
												Dome west	
	13											Light west wind	
	13												
	4s						600/m	306μ	5130Å	7			
	5B	1.6K								8			
	4s									9			
	4s									2			12K
	0									1			

PG #1

Date 1997 Oct 3/4 Observers MKitt / WxL

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc48935	Fe Ar Comp.				cc48935			Fe Ar ND #3	4
936	HD 222994	23:40:36	24 55 00	20:33:08	cc48936				
937/938	Inboard/outboard				cc48937/38			Fe Ar ND #3	4/4
cc48939	BIAS(4)			20 51	cc48939				0
40	comp							"	4
41	HD222994	23 40 36	24 55 00	20 58 51					1200
42	comp							"	4
43	HD222994	"	"	21 21 54					300
44	comp							"	4
45/51	flats							Tung ND #4	6
52	BIAS(4)			21 37					0
53	comp							Fe Ar ND3	4
54	HD222994	"	"	22 08 20					1201
55	comp							"	4
56	comp								
57	HD222368	23 34 48	05 05 03	22 34 57					120

Spectr. Temp. −101.3°C Dome Temp./Hum. 13.1/81.2% Transparency Conditions Cloudy 80.

Focus 6.75

Spectr. Temp. ..... Dome Temp./Hum. +13.° 81.2% 400 • 50 1024 & 1 CCDFMT

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	~~4"~~	~~9~~		CASS CCD	1800/mm 47.06	306μ	5184	1		Not focussed.	
	4"	9.0	FV					5			
								3/4		New focus.	
								1			
								6			
726	4"	9.0	FV					7			
								8			
145		"	"					9		cloudy	
								10			
								5			12.5k
								1			
								11			
729	5"	9.0	F5					12			
								13			
5.3K		4.3 ↓	F7V ↓					13			
								14			

8/PG#2 Oct.

Date 1997 3/4 Observers MK:+/Lu

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp Mtr	Sc
cc48958	comp							FeAr ND#3	4		
59	BIAS(4)			22 39							
60	comp							"	4		
61	BD+12 511	03 49 28	12 54 44	22 58 07					900	407	4
62	comp							"	4		
63	BD+12 511	"	"	23 23 34					900	398	4
64	comp							"	4		
65	BIAS(4)			23 40					0		
66	BD+12 511	"	"	23 43 15					900	370	
67	comp							"	4		
68	BIAS(4)			00 00							

Spectr. Temp. −100.20 C Dome Temp./Hum. 12.1°C / 86.0% Transparency Conditions ..... partly clear 8.2

Focus ..... 6.75 .....

Spectr. Temp. ..... Dome Temp./Hum. 11.7°C / 90.10%

Comparison Filter	Exp	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
hr #3	4					CASS CCD	1800/mm 47.06	306μ	5785	15			
										1			
	4									15			
	900	407	4"	9.5	GO					16		faster comp. 10" SSE	
	4									17			
	900	398	4"	"	"					18			
	4									19			
	0									1			
	900	370		"	"					20			
	4									21			
										1			

83 PG #1

Date 1991 Oct 5/6 Observers Vnk/Ksz/Lu

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp	Exp Mir	Seein
CC 4896 9	Inboard/outboard							F2 AT ND43	4/7		
70											
71	BIAS(4)			19 29							
72	comp							"	4		
73	HD187691	19 46 14	10 09 55	19 36 40					275	7K	
74	comp							"	4		
75	comp							"	4		
76	HD196504	20 32 49	+6 06 50	19 47 43					411	8.3K	
77	Comp							"	4		
~~78~~	Comp							"	4		
	~~HD 209680~~	~~18 45 54~~	~~15 49 00~~	~~21 21 03~~							
78	comp							"	4		
79	HD187921	19 47 24	+7 12 00	21 33 33					645	3K	
80	comp							"	4		
81	BIAS(4)			21 46							
82	comp							"	4		
83	HD213307	22 25 24	+7 53 00	21 54 43					106	1.50	

CCD
Spectr. Temp. ...
Focus ... 6,7
Spectr. Temp. ...

CCD

Spectr. Temp. −101.3 °C Dome Temp./Hum. 18.5 °C / 46 % Transparency Conditions OK

Focus 6,71 clouds coming fast.

Spectr. Temp. ..... Dome Temp./Hum. ..... 395 0 50 1024 4 1 CCDFMT

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				CASS CCD	1800 V/mm 5-6,35	30	6600	3/4			
								1			
								5			
7K	3"5"	5	F8V					6	Vel std		
								7			
								7			
8.3K		5.6	B9					8	Telluric std	– clouds coming	
								9			
		11	F2					10	Vnk Cep	cloudy	
								9			
825		7.	G2					10			
								11			
								1			
		4						11			
6150		4	F2					12			

PG #2

85 Date 1997 Oct 5/6 Observers VnK / Ksg / Kiss / Lu

Emulsion Batches:
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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc48984	comp							FeAr ND3	4
85	comp							"	4
86	HD197572	20 39 29	35 13 38	22 03 09					157
87	comp							"	4
88	comp							"	4
89	HD203156	21 15 23	37 48 55	22 12 09					162
90	Comp							"	4
91/97	flats							Tung ND#5	6
98	BIAS(4)			22 27					0
99	BIAS(4)			23 40					0
cc49000	Comp	(2000)						FeAr ND #3	4
01	BD+39 4379	20 57 21	40 10 39	23 46 23					200
02	comp							"	4
03	comp							"	4
04	BD+17° 4572	21 19 21	17 51 00	00 27 22					180
05	comp							"	4

CCD
Spectr. Temp. −100.2°C Dome Temp./Hum. ..... Transparency Conditions ... partly clear — cloudy 86

Focus ..... 6.71 .....

Spectr. Temp. ..... Dome Temp./Hum. ..... 395 0 50 1024 4 1 CCDFMT

Comparison Type/Filter	Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
FeAr AlO3	4					CASS CCD	1800 1/mm 5635	306μ	6600	13			
"	4									13			
	157	1320		6.	G2					14	Vnk Cap.		
"	4									15			
"	4									15			
	162	830		5.8	F2					16			
"	4									17			
ung	6									5			12,5K
	0									1			
	0									1			
FeAr AlO #3	4									17			
	2400	550	6"-8"	10	F5					18			
"	4									19			
"	4									19			
	157	810	6"	9.5	F8					20			
"	0									21			

PG #3
87

Date 1997 Oct. 5/6 Observers Vnk/Lu

Emulsion Batches:
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CCD
~~Spectr.~~ Temp.
Focus.....
Spectr. Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp. Mtr	Sec
cc4906	BIAS(4)			01 00					0		
07	comp							FeAr ND#3			
08	HD214975	22 36 54	56 19 00	01 11 49					400	1252	
09	comp							"	4		
10	comp							"	4		
11	IX Cas	00 04 51	50 14 06	01 32 32					2400	400	
12	comp							"	4		
13	BIAS(4)			02 14					0		
14	comp							"	4		
15	HD30282	04 41 06	36 32 00	02 29 38					600	1700	
16	comp							"	4		
17	comp							"	4		
18	HD236439	00 24 24	59 40 00	03 03 19					1200	851	
19	comp										
20	BIAS(4)			03 25							

CCD
Spectr. Temp. −100.3°C Dome Temp./Hum. 17.7°C / 77.2% Transparency Conditions haze 88.

Focus 6.71

Spectr. Temp. ..... Dome Temp./Hum. ..... 395 0 50 1024 4 1 CCDFMT

Comparison Filter	Comparison Exp	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	6					CASS CCD	1800 l/mm 56.35			1			
Ar #3										21			
	400	1232		8.	F6					22			
	4									23			
	4									23			
	2400	400		11.5	F7					24			
	4									25			
	10									1			
	4									25			
	600	1700		7.5	F2					26			
	4									27			
	4									27			
	120	831	3"-4"	9	F7					28			
										29			
										1			

8" PG #4

Date 1997 Oct 5/6 Observers Vnk / Ksz / Lu

Emulsion Batches:
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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
ec49021	comp							FeAr #3	4
22	HD44990	06 19 49	07 08 25	03 32 52					300
23	comp							"	4
24	comp							"	4
25	HD52610	06 56 48	-01 00 00	03 45 02					1200
26	comp							"	4
27	comp							"	4
28	HD56167	07 10 54	69 52 00	04 13 56					1200
29	comp							"	4
30	BIAS (4)			04 36					0
31	comp							"	4
32	HD32456	04 58 18	55 13 00	04 42 14					600
33	comp							"	4
34	comp							"	4
35	HD18884	02 57 03	03 41 41	04 59 43					37
36	comp							"	4

CCD
Specfr. Temp.
Focus
Spectr. Temp.

Exp Mir Se
3766 3"
120
1965 2"
3K
2K

CCD
Spectr. Temp. −100.3°C Dome Temp./Hum. 17.3°C / 48% Transparency Conditions slightly haze 90

Focus 6.71

Spectr. Temp. ..... Dome Temp./Hum. .....

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				CASS CCD	1800 l/mm 56.35	306μ	6600	7			
2766	3"-4"	6	G3					8			
								9			
								9			
1120		8.5	G0					10			
								11			
								11			
1965	2"-3"	8.3	Ce+					12			
								13			
								1			
								13			
3K		7.5	F					14			
								15			
								15			
12K		4	M I II					16	std vel		
								17			

9/PG 5

Date 1997 Oct 5/6 Observers VnK/Kss/Kiss/Lu

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc49037	comp							FLAT NO 3	4
38	HD52973	06 58 11	20 43 02	05 06 26					69
39	comp							"	4
40	BIAS (4)			0510					
41	comp							"	4
42	HD45412	06 22 08	30 33 18	05 13 58					246
43	comp							"	4
44	comp							"	4
45	HD22484	03 31 46	00 05 04	05 22 52					176
46	comp							"	4
47	BIAS (4)			05 27					0

CCD

Spectr. Temp

Focus

Spectr. Temp

Exp Mtr	Sc
10K	2
9K	2
9K	2

CCD

Spectr. Temp. −100.3°C. Dome Temp./Hum. 17.°c/78.% Transparency Conditions clear 92

Focus 6.71

Spectr. Temp. ..... Dome Temp./Hum. .....

Comparison Filter	Comparison Exp	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
						CASS CCD	1800 ℓ/mm	306 μ	6600	17			
		10K	2"	4	F?					18			
										19			
										1			
										19			
		9K	2"	5.6	FG					20			
										21			
										21			
		9K	2"	4.3	FBV					22			
										23			
										1			

93 pg #1

Date 1997 Oct 7/8 Observers [Vyo]/Lu/Tn

Emulsion Batches: .....

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp Mtr	Se
CC49048/49	Inboard/outboard							FeNe ND#5	3/2		
50	BIAS(4)			20 27							
51	comp							FeNe ND#5	4s		
52	BD+23457C	22 3241	+232452	20 3924					1815	301	
53	comp							FeNe ND#5	4		
54	comp							"	4		
55	AC+19079-115	23 11 42	+19 04 39	21 1509					1380	342	
56	Comp							"	4		
57	comp							"	4		
58	HD 216899	22 51 48	16 02 00	21 43 19					660	858	
59	comp							"	4		
60	BIAS(4)			2156					0		
61	comp							"	4s		
62	AC+3 2781-116	23 03 00	02 47 05	22 00 40					1235	575	
63	Comp							"	4s		
64	Comp										

CCD
Spectr. Temp. −100.3°C Dome Temp./Hum. +17.0°C 54%H Transparency Conditions haze 9K

Focus 6.71

Spectr. Temp. Dome Temp./Hum. °C 400 0 50 1024 4 1 CCOFmT

Exp. Mtr.	Seeing	Pix Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				C455 CCD Tgrating →	1800 l/mm 47.75	306u	5-3008	1/2		2 MAX ADU	
								1			
								3			
301	2"	12.2	K8					4	Vys fym	Vys 893C ~40 ADU ABove Background	GSK
								5			
								5			
342	2"	11.1	M0					6	Vys 860	OK	
								7			
								7			
858		8.66	M2					8	Mwcy Std	vel	
								9			
								1			
								9			
375	2"	10.9	M0					10	Vys 343		
								11			
								11			

95 PG #2

Date 1997 Oct 7/8 Observers [Vys]/Lu/Tn

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc4806 5	AC+11 1710-70	23 48 28	11 33 07	22 26 45					1800
66	comp							FeNe ND #5	4
67	Vys 870A	23 48 28	11 33 07	22 59 08					1111
68	Comp							"	4
69	BIAS(4)			23 19					0
70/76	flats x7							Tung ND#4 FeNe ND 5	5
77	Comp								4s
78	HD 18884	02 57 03	+03 41 51	23 44 43					19
79	comp							"	4
80	HD 18884	"	"	23 47 59					275
81	Comp							"	4s
82	BIAS(4)			23 54					0
83	Comp							FeNe ND5	4s
84	HD 1326	00 12 42	+13 27 00	01 44 29					
85	Comp							"	4s
86	BIAS(4)								

CCD
Spectr. Temp.
Focus
Spectr. Temp.

Exp Mtr	Se
299	2
270	
2K	
1.5K	
	3

CCD

Spectr. Temp. −100.3°c Dome Temp./Hum. 15.6°c/65.5% Transparency Conditions very haze — cloudy 96

Focus 6.71

Spectr. Temp. ..... Dome Temp./Hum. .....

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
299	2"	12.2	M0		1800 l/mm 47.75	306		12	Vys 870B	South one of pair	
		~~12.2~~	~~M0~~					13			
270		11.7	Looks M type					14		cloud at end North and brighter	
								15			
								1			
								2			13.2K
								16			
2K		253	M1.5 III a					17	Std vel	cloudy	1.3K
								18			
9.5K		"	"					19	std vel		9.6K
								20			
								1			
								20			
190	3"	8.07	M III					21	Nancy Std vel	Too cloudy	
								22			

97 pg#1 Wed / Thurs

Date 1997 Oct 8/9 Observers [Rm] / Jy / Lm

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc 4908 7/88	inboard low board Hartmann Test							Fear ND 4	4/6
89	BIAS(4)			18 44					0
90	Comp							"	45
91	HD187691	19 46 M	+10 09 55	18 47 04					222
92	comp							"	4
93	Comp							"	4
94	HD203156	21 15 23	37 48 55	18 57 27					900
95	comp							"	45
96	Comp							"	4
97	HD180583	19 11 59	27 44 59	19 21 15					900
98	Comp							"	4
99	BIAS(4)			19 38					0
cc49100	comp							"	4
01	HD222368	23 34 48	05 05 03	19 49 41					500
02	comp							"	4
03/09	flats							Tung ND 4.5	6

CCD
Spectr. Temp. — °C Dome Temp./Hum. +18.0°C 75%H Transparency Conditions Hazy - cloudy 98

Focus 6.71

Spectr. Temp. Dome Temp./Hum.

DD074 "Corrected" used as it was last night.

400 050 1024 41 CCDFMT

Exp. Mtr.	Seeing	Pg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
10000 NO filter				Typetron	1800 l/mm 54.93	30u	6400Å	3/4	focus		
							I 2Å @ Ra=52	1			
								5			
3015	4	5.11	F8C					6	stdvel		
								7			
								7			
4756	4	5.8	F2					8	RM		
								9			5.5K
								9			
4120		6.19	F6J-IIb					10	Rm pym		
								11			
								1			
								11			
8780	5"	4.13	F7V					12	std vel	cloudy	
								13			
								2			11.6K

q 99 BG #2 Wed / Thurs

Date 1997 Oct 8/9 Observers [Rm]/Lu/Tn

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp
CC49110	Comp							FeAr NO 4	45
11	BD+32°3743	20 08 27	32 34 16	20 13 09					180
12	comp							"	4
13	BIAS(4)			2045					0
14	comp							"	4
15	HD214975	22 36 54	+56 19 00	20 51 34					135
16	Comp							"	4
17	Comp							"	4
18	HD 215159	22 38 15	+53 23 08	21 17 45					459
19	Comp							"	45
20	"							"	45
21	HD44982	06 19 48	+82 21 00	21 33 40					120
22	Comp							"	4
23	BIAS(4)			2156					0
24	Comp							"	45

CCD
Spectr. Temp. −100.3°C Dome Temp./Hum. 15.5°C/80.0% Transparency Conditions OK but hazy 100

Focus 6.71

Spectr. Temp. ..... Dome Temp./Hum. .....

~ MAX ALT

Exp. Mtr.	Seeing	Pg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				C1455CCD	1800/mm 54.93	30μ	6400Å	13			84%
1260		9.1 −9.8	G2 Ib					14	Rm pgm		
								15			
								1			
								15			
3K	4"	8.4	G0 Ib					16	Rm pgm	Δα +00 00 07 Δδ −00 00 36 Z Loc	41%
								17			
								17			
5.9K	.3"	6.19	K2					18	std for	HD 214975	75%
								19			
								19			
641	3"-4"	9.8	G5V					20			
								21			
								1			
								21			

'10 | Pg #3 Wed/Thurs

Date 1997 Oct 8/9 Observers [Rm]/Lu/Tn

Emulsion Batches:
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CCD Spectr Temp. ..... Focus ..... Spectr Temp. .....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp	Exp Mir	See
CC49125	HD 30282	044106	+363200	220255					1200	:280	5.8
26	Comp							FeAr ND 4	4		
27	Comp							"	4		
28	HD253761	035642	+582300	222710					1025	:260	
29	Comp							"	4		
30	BIAS(4)			2250					0		
31	Comp							"	4		
32	HD37665	003518	394000	225225					535	18K	2"
33	Comp							"	4		
CC49134/41	HD3765 x4							4x	67		
42/45	DARKS x4							4x	67		
46/47	DARKS x2							2x	133		
48/49	HD3765							2x	133		
CC49134	Comp							FeAr ND 4	45		
35	HD44990	061949	+070875	234558					1534	1100	5-8"
36	Comp							"	45		

CCD

Spectr. Temp. −100.3 °C Dome Temp./Hum. 14.6°C / 86.1 % Transparency Conditions haze ~2

Focus 6.71

Spectr. Temp. ____ Dome Temp./Hum. +14.2°C 88.9%H

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
2280	5"-8"	7.9-8.8	F6-G1	CASS CCD	1800 l/mm 54.9°	306μ	6400 Å	22	Rm pgm	High priority coo	
								23			
								23			
2060		7.3-8.7	F6I6-G2I6					24	Rm pgm		
								25			
								1		Very light east wind	
								25			
1.8K	2"	7.36	dK5					26	stdvel		2k
								27			
					Above	306μ slit			Seeing Test	Light Eastwind	
										Dome SW	
										HLT 815°	
								27			
1700	5-8"	B 6.5-8.0	F7Iab-K1Iab					28	Rm	High priority	
								29			

103 89Her4

Date 1997 Oct 8/9 Observers [Vys]/In/Lu

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc4913 7/38	~~BIAS(4)~~ InBoard	LonTboard					FeNe NO5	3/2	60
139	BIAS(4)								0

Spectr. Temp

Focus 6

Spectr Temp

Exp Mtr Sc

Spectr. Temp. ..... Dome Temp./Hum. +14.1°C ..90%H Transparency Conditions . Sudden cloud cover.....
Focus ....6.80..... Humidity Rise. 14K
Spectr. Temp. ..... Dome Temp./Hum. .....

Comparison/Filter	Exp	Exp. Mtr.	Seeing	Proj. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
3/26						CASSCOD	1800/m 47.75	306	~~Not reported~~		5300Å	focus Test.	
	0								5300Å	1			

105
pg#1 Thurs/Fri

Date 1997 Oct 9/10 Observers Kis/Vnk/Tm

Emulsion Batches:
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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CCD46 2½2	Inboard/outboard Hartmann							TIA	1.5/.8
23	BIAS(4)								0
24	Comp							"	1
25	HD 184929	19 47 23	00 44 56	21 45 30					604
26	Comp							"	1
27	Comp							"	1
28	HD 176155	18 53 48	+17 13 35	22 00 35					1.500
29	Comp							"	1
30	Comp							"	1
31	HD 184727	19 51 29	+16 22 11	22 30 25					1500
32	Comp							"	1
33	BIAS(4)			22 57					0
34	Comp							"	1
35	HD 197572	20 39 19	+35 13 38	23: 02: 17					1500
36	Comp							"	1

CCD
Spectr. Temp. ...-104.3°C... Dome Temp./Hum. 118.7°C 88% Transparency Conditions ...PART Cloudy...106..

Focus ....234..... 90c gain as usual

Spectr. Temp. ..... Dome Temp./Hum. ..... CJ Using new "corrected" DDO74 encoded prgm

Comparison Filter	Exp.	Exp. Mtr.	Seeing	Pkg. Mag.	Sp.	Inst. Echelle	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
	15/18	Using 100 T scale				19.45	300L W 90u = .265 .5830 H 300u)		6300A	1/2	focus test	0 0 128 1024 8 1 CCDFMT,	
	0	1320 Volts no filter					H 300u = .235			1		0 0 256 1024 4 1 CCDFMT,	
W	1									3			
	60	60	3"	4.0	F-G					4	cepheid prgm	~ 7h	
W	1									3			
W	1									3			
	1500	40	3"-5"	5.8	F-G					5			
	1									3			
	1									3			
	1500	33	4"	6.4	F-G					6			
	1									3			
	0									1			
	1									3			
	1500	38		5.9	G					5			
										3			

157 Pg #2 Thurs / Fri

Date 1997 Oct 9/10 Observers K.S./M.K./T.G.

Emulsion Batches:
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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CE14637	comp							ThAr	1
38	HD 198726	2047:13	+275232	23:34:05					1395
39	Comp							"	1
40	comp							"	1
41	HD201078	21 02 18	304701	000146					1200
42	comp							"	1
43	Comp							"	1
44	HD203156	21 1523	+374855	00 2637					1200
45	Comp							"	1
46	BVS(4)			0049					0
47	Comp							"	1
48	HD213307	222524	+575300	00 5528					636
49	Comp							"	1
50	Comp								1
51	HD213307 comparison	222524	+5754	01.1049					1199
52	Comp							"	1

Spectr. Temp.
Focus
Spectr. Temp.

Exp Mtr	Se
3	4
13	
57	4
180	
15	

Spectr. Temp. ..... Dome Temp./Hum. +17.4°C 86.0% H Transparency Conditions Hazy 1.8

Focus 1234

Spectr. Temp. ..... Dome Temp./Hum. ..... Very windy by Ohrs

Exp. Mtr.	Seeing	Tlg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				Echelle 19.45	0300/m W 5830 H	90u 300u	6300Å	3			
40	4.5"	6.0	F-G					5			
								3			
								3			
43		5.7	F-G					6			
								3			
								3			
57	4.5"	5.8	F2					5			
								3			
								1			
								3			
~80								6			
								3			
								3			
45		6.0	A					5			

109 P93

Emulsion Batches: .....

Date ..1997 Oct 9/10..... Observers ..Kis/Vink/Tu..... .....

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp Mtr.	Se
CP14653	Comp							ThAr	1		
54	HD17463	024307	682827	013552					1100	80	
55	Comp							"	1		
56	BIAS[4]			0159					0		
57	Comp							"	1		
58	HD32456	045818	+51300	020247					1808	-7	
59	Comp							"	1		
60	Comp							"	1		
61	HD30282	044106	363200	023944					1600	1	
62	Comp							"	1		
63	BIAS[4]			0309					0		
64	Comp							"	1		
65	HD20902	031711	493019	031536					269	1	
66	Comp							"	1		
67	Comp							"	1		

Spectr. Temp.
Focus ....
Spectr. Temp.

Spectr. Temp. ..... Dome Temp./Hum. 7.16.1°C. 67.2% Transparency Conditions ..Mostly clear.....1.1.9.

Focus .....234.....

Spectr. Temp. ..... Dome Temp./Hum. .....

Exp. Mtr.	Seeing	Prg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
								3			
80		6.0	F-G					4			
								3			
								1			
								3			
47		7.5	F-G					5			
								3			
								3			
44		7.5	F-G					6			
								3			
								1			
								3			
151		1.9	F					4			
								3			
								3			

III P54

Emulsion Batches: .....

Date ..1997 oct 9/10.... Observers ..Kis/Vink/Tu.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CE14668	HD 20418	031200	+494347	032545					1001
69	Comp							Thar	1
70	Comp							"	1
71	HD29260	043124	+182000	034804					1500
72	comp							"	1
73	Comp							"	1
74	HD22424	033146	+000504	041658					726
75	Comp							"	1
76	BIAS[4]			0432					0
77	Comp							"	1
78	HD44990	061949	070825	043603					1500
79	Comp							"	1
80	comp							"	1
81	HD52973	065811	204302	050552					600
82	Comp							"	1

CCD
Spectr. Temp. −101.4°C@03:45 Dome Temp./Hum. +13.3°C 71.6% Transparency Conditions Mostly Clear

Focus 1234

Spectr. Temp. −100.3 @ 0553 Dome Temp./Hum. +12.0°C 73.2%

Exp. Mtr.	Seeing	Pkg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
62		5,0	A	Eddie 19:45	300L W H	90u 300u	6300A	5			
								3			
								3			
53	4"-6"	6,5	F-G					6			
								3			
								3			
70		4.5	F-G					4			
								3			
								1			
								3			
71		7.0	F-G					5			
								3			
								3			
80	4"	4.0	F-G					6			
								3			

113 pg 5

Emulsion Batches:

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Date 1997 Oct 9/10 Observers K. Kis/Kun K. I. Tug

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CEM683	Comp							THT	1s
84/HD45412		06 2208	+30 3318	05 19 25					120s
85	Comp							n	1s
86	BIAS (4)	Redone after topup		05 53					0
87/93	FLATS x 7							THG	1s

Spectr. Temp.

Focus ....

Spectr. Temp.

Exp. Mtr	Se
1320V	
61	4

Spectr. Temp. -100.2°C ..... Dome Temp./Hum. ..... Transparency Conditions .O.K ..... lik.

Focus ..... 234 .....

Spectr. Temp. ..... Dome Temp./Hum. .+11.3°C..74.7% H

Exp. Mtr.	Seeing	Pg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
1320 V				Echelle	0300 l/mm X	90u 300u	6300 Å	3			
61	4"							4	Classical cepheid		
								3	CCDTemp -94.0°C		
								1	CCDTemp up to 05:50 done		
					H = 350u	for flats		2			8K

115 pg#1 FRI / SAT

Date .1997 oct 10/11..... Observers ..kis./vnk./J.m.....

Emulsion Batches:
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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
ce1469 94/95	Inboard / Outboard Heatmaps								1.5/0.9
96	BIAS(4)								0
97/703	FLATS x7	using 100 tscale						TUNG	1.5s
ce14704	Comp							ThAr	1s
05	HD187929	194723	004456	183253					600
06	Comp							"	1
07	Comp							"	1
08	HD163506	175123	+260357	184710					1038
09	Comp							"	1
10	Comp							"	1
11	HD176155	185348	+171335	190812					1200
12	Comp							"	1
13	Comp							ThAr	1
14	HD177724	19:00:49	13:42:53	19:32:34					480
15	Comp							ThAr	1
16	BIAS[5]			19 42					0

CCD
Spectr. Temp. −100.2°C Dome Temp./Hum. +13.8°C 59%H Transparency Conditions Mostly clear 11.6

Focus 1.230

Spectr. Temp. Dome Temp./Hum. MAX ADU

no filter

Exp. Mtr. 13.20V	Seeing	Pg. Mag.	Sp.	Inst. Echelle	Grating/ × Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
100 Tscale				1945	0300 lm H	90u 350u	6300Å	1/2	Focus test	CCD FAST FOR FOCUS 0 0 128/124 8-1	
								1		0 0 256 1024 4 1	
					H	350u = .230		2			12.5K
					H	300u = .235		3			
99		4.0	F-G					2			
								3			
								3			
52	2-3"	5.5	F2					4			
								3			
								3			
66		5.8	F-G					5			
								3			
								3			
112		2	A0					6	Telluric Std		
								3			
								1			

17 Aug 97 FRI/SAT

Date 1997 Oct 10/11 Observers Kis/Mak/Tan

Emulsion Batches:
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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CE14717	Comp							ThAr	1
18	HD187691	194614	+100955	194546					1000
19	Comp							"	1
20	Comp							"	1
21	HD188727	195129	+162211	200621					1587
22	Comp							"	1
23	Comp							"	1
24	HD187921	194724	+271700	203644					1393
25	Comp							"	1
26	BIAS[4]			21:02					0
27	Comp							"	1
28	HD197572	203929	351338	210605					1480
29	Comp							"	1
30	Comp							"	1
31	HD 198726	204713	+275237	21 3534					1500
32	Comp							"	1

Spectr. Temp.
Focus 12
Spectr. Temp.

Exp. Mtr.	See
3500	
57	3
65	1
60	
60	3

Spectr. Temp. ..... Dome Temp./Hum. 7.11.0°C. 64.4%H Transparency Conditions Part. Cloudy ..... 11.8.

Focus .....230.....

Spectr. Temp. ..... Dome Temp./Hum. 7.9.5°C. 67.7%H Great Aurora seen in NE at 20:30 EST

Exp. Mtr.	Seeing	Rfg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
13200 no filter				Echelle 19.45	03001	90u 300u	6300Å	3			
51	3"	5	F8					4	std vel		
								3			
								3			
65	4"	5.8	F-G					5			
								3			
								3			
50		7.0	F-G					6			
								3			
								1			
								3			
60		6	F-G					4			
								3			
								3			
60	3"	6	F-G					5			
								3			

19 pg #3 Fri / Sat.

Date 1997 Oct. 10/11 Observers Kris / Vicki / Tim

Emulsion Batches:
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Spectr. Temp. 20
Focus .....
Spectr. Temp. 20

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp Mtr.	Se
CE14733	Comp							ThAr	1		
34	HD201078	210218	+304701	220017					1176	62	2
35	Comp							"	1		
36	BIAS(47			22:20					0		
37	Comp							"	1		
38	HD203156	211523	+374855	222502					1249	55	
39	Comp							"	1		
40	Comp							"	1		
41	HD213307	222524	+375300	225103	el.tel nav ✓				600	12	
42	Comp							"	1		
43	Comp							"	1		
44	HD17463	024303	+682827	230852					1492	3	3
45	Comp							"	1		
46	BIAS(4)			23 35					0		
47	Comp							"	1		

CCD
Spectr. Temp. −100.0°C ..... Dome Temp./Hum. +8.8°C 69.9%H Transparency Conditions ..Mostly clear..... (2)

Focus .....230.....

CCD
Spectr. Temp. −100.2°C ..... Dome Temp./Hum. .....

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
1320V				Echelle 19.45	0 300/m	90µ	6300Å	3			
62	2-3"	5.9	F-G					6			
								3			
								1			
								3			
55		5.8	F-G					4			
								3			
								3			
72		4	F-G					4		wrong time in the header! corrected	
								3			
								3			
53	3"	6	F-G					5			
								3			
								1			
								3			
								4			

12 pg#4

Date 1997 Oct 10/11 Observers Kis/Vink/Tin

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
ce14748	HD2207	00 20 54	+50 43 00	23 41 28					1800
49	Comp							ThAr	1
50	Comp							"	1
51	(4) Vesta	01 51 20	-01 06 00	00 17 43					1800
52	Comp							"	1
53	BIAS(4)			00 49					0
54	Comp							ThAr	1
55	HD29760	04 31 24	+18 20 00	01 05 20					1514
56	Comp							"	1
57	Comp							"	1
58	HD30282	04 41 06	+36 32 00	01 36 17					1800
59	Comp							"	1
60	BIAS(4)			02:07					0
61	Comp							"	1
62	HD32456	04 58 18	+55 13 00	02 15 02					1812
63	Comp							"	1

Spectr. Temp. ..... Dome Temp./Hum. ..... Transparency Conditions ..... Fine 122

Focus ..... 1230 .....

Spectr. Temp. ..... Dome Temp./Hum. 18.0°C 70.2%H

Exp. Mtr.	Seeing	Rtg. Mag.	Sp.	Inst. Echelle	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
1320V 40	3"	7.8		1945		90u 300u	6300Å	6			
								3			
								3			
										↓ -00 00 02 @ Start	
57		6.4	G2					4		↓ -00 02 33	
								3			
								1			
								3		After Topup	
19	3.5"	6.4	F-G					2			
								3			
								3			
13		7.0	F-G					4			
								3			
								1			
								3			
10	4"	7.5	F-G					5			
								3			

Exposure meter Finally Balanced before This exposure

123
pg #5

Date 1997 Oct 10/11 Observers Kris/Vuk/Tu

Emulsion Batches:
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Spectr. Temp.
Focus .....°
Spectr. Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp. Mtr	Se
CE14764	Comp							Thar	1		
65	HD56167	071054	+691200	025224					2061	8	3
66	Comp							"	1		
67	BIAS(4)			0329					0		
68	Comp							"	1		
69	HD40457	055348	+351900	033508					1779	1	3
70	Comp							"	1		
71	Comp							"	1		
72	HD44990	061949	+070825	041206					1862	51	3
73	Comp							"	1		
74	BIAS(4)			0444					0		
75	Comp							"	1		
76	HD52973	065811	+204302	044858					631	77	
77	Comp							"	1		

Spectr. Temp. ..... Dome Temp./Hum. 18C 70,3%H Transparency Conditions ... Five ... 13K

Focus ... 230 ...

Spectr. Temp. ..... Dome Temp./Hum. .....

Exp. Mtr.	Seeing	Prg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				Echelle	300l/mm	90u	6300Å	3			
8	3"	8.5	C					6		1 450	
								3			
								1			
								3			
9	3"	8	F-G					4		1 500	
								3			
								3			
51	3"	7	F-G					2	7 mn	72K	
								3			
								1			
								3			
72								2		3K	
								3			

105 Pg #6

Date 1997 Oct 10/11 Observers Vn. K. / Kis. / J. n.

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
C014778	Comp							ThAr	1
79	HD45412	062208	+30338	050409					1774
80	Comp							"	1
81	BTHS (4)			0535					0

Spectr. Temp.
Focus
Spectr. Temp.

Exp Mtr.	Se
.2	3
	8

Spectr. Temp. ..... Dome Temp./Hum. +6.4°C 73% Transparency Conditions ... Fine ... 26.

Focus .....

Spectr. Temp. ..... Dome Temp./Hum. .....

Exp. Mtr.	Seeing	Fig. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				Echelle	0300h	90u	6300B	3			
47	3"							4			
	8"							3			
								1			

127 pg#1 SAT/SUN

Date 1997 Oct 11/12 Observers Kis/Vak/Tm

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
ce14782/83	Inb/out							ThAr	1.5/.9
84	BIAS(4)			1837					0
85	Comp							ThAr	1
86	HD187929	194723	+004456	184156					500
87	Comp							"	1
88	Comp							"	1
89	HD163506	175123	+260357	185425					1200
90	Comp * Only for next star			* (2nd for HD163506 Lost)				"	1
91	HD176155	185348	+171335	191947					1200
92	Comp							"	1
93	BIAS(4)			1941					0
94	Comp							"	1s
95	HD177724	190049	+134053	194450					300
96	Comp							"	1s
97	Comp							"	1s

CCD
Spectr. Temp. −100.1°C ..... Dome Temp./Hum. +11.6°C 58% Transparency Conditions Mostly clear 128

Focus ... 1.230 .....

Spectr. Temp. ..... Dome Temp./Hum. .....

~1174X

Exp. Mtr.	Seeing	Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
13204 no filter				Echelle 1945	.5830 ~~.5835~~ ~~changed to .5835~~	90u 300u 90u=.265 300u=.235		1/2		0 0 128 1024 8 1	
					.5835			1		0 0 256 1024 4 1	
6.3K								3			10K
82	2"	4	F-G					2			2.4K
								3			
								3			
46	2.3"	5.5	F2					4			1.1K
								3			8.5K
58	2.3"	5.7	F-G					5			2.1K
6.1K								3			9K
								1			
								3			
99		2.99	A0					2	Telluric Std		2.2K
								3			
								3			

129 pg#2 SAT/Sun

Date 1997Oct11/12 Observers K.S./Unk/T.m

Emulsion Batches:
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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
ce14798	HD187691	194614	+0 0955	195342					1000
99	Comp							JTA	1s
800	Comp							"	2s
01	HD188727	195129	+162211	201354					1200s
02	Comp							"	1s
03	Comp							"	1s
04	HD203467	211718	+642652	203921					1000
05	Comp							"	1s
06	BIAS(4)			2058					0
07	Comp							"	1s
08	HD197572	203929	+561338	212419					1200
09	Comp							"	1s
10	Comp							"	1
11	HD187796	194643	+323940	211919					600
12	Comp							"	1

CCD Spectr. Temp. −101.5°C Dome Temp./Hum. 709.2°C 624%H Transparency Conditions Fine 130

Focus 230

CCD Spectr. Temp. −101.3°C Dome Temp./Hum.

Comparison Filter	Exp	Exp. Mtr. 13.20V	Seeing	Rig. Mag.	Sp.	Inst. Echelle	Grating/ Tilt X	Slit	Emulsion	P.H.	Program	Remarks	Quality
	1/100	54	2"	5.11	F8	19.45	1800 .5835 W H	30u 300u	6300Å	5Ci	std UCL		
	1/5									3			
	1/5									3			9.2k
	1/100	55		5.6	F-6					6			
	1/5									3			
	1/5									3			
	1/100	53	2"3"	5	B					4			
	1/5									3			
	0									1			
	1/5									3			
	1/100	23	2"	6-	FG					~~3~~ 4	~~Planetary nebula~~	~~Top spectrum, exposure~~	
	1/5									3			
	1									3			
	1/100	57	3"	5	M					5		Hα em GK	
										3			

13/pg#3 SAT/SUN

Emulsion Batches:

Date 1997 Oct 11/12 Observers KS/JM

Spectr. Temp.
Focus
Spectr. Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp Mtr	See
Ce14813	Comp							TH	1s		
14	HD198726	204713	+275232	220429					1/50	40	34
15	Comp							"	1s		
16	BIAS(4)			2231					0		
17	Comp							"	1s		
18	HD201078	210218	+304701	223446						40	37
19	Comp							"	1s		
20	Comp							"	1s		
21	HD203156	211523	+374855	230445					1501	25	
22	Comp							"	1s		
23	Comp							"	1		
24	HD213307	222524	575300	233135					600	68	
25	Comp							"	1		
26	BIAS[4]			2347					0		
27	Comp							"	1	69K	

Spectr. Temp. ..... Dome Temp./Hum. +7.5°C 72% Transparency Conditions ..Part Cloudy.....1.32

Focus .....1230.....

Spectr. Temp. ..... Dome Temp./Hum. .....

Comparison Filter	Exp.	Exp. Mtr.	Seeing	Pg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	1s					echelle 19.45	0300/m	90u 300u	6300Å	3			
	1/50	40	3-4"	5.8	F-G					4			1.2k
	1s									3			
	0									1			
	1s									3			
		40	3"	5.8	F-G					2			1.2k
	5									3			1.2k
	1s									3			
	1/50	35		5.9	F-G					4			
	1s									3			
	1									3			
	1/2	68		4	F-G					5			3k
	1									3			
	10									1			
	1	5.9k								3			7.9k

133 PG04 SAT/SUN

Emulsion Batches:

Date 19.9.7.Oct11.12... Observers K.S/MK/TS.....

CCD Spectr. Temp.
Focus....12
Spectr. Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp	Exp Mtr. 1320	Sec
ce14828	HD17463	024303	+682827	235404					1719	42	2
29	Comp							ThAr	1s		
30	Comp							〃	1		
31	HD2207	00 2054	+50 4300	00 2746					1815	3	3
32	Comp							〃	1		
33	BIAS(4)			010007					0		
34	Comp							〃	1		
35	HD30282	04 4106	+36 3200	01 0535					1715	10	34
36	Comp							〃	1		
37	Comp							〃	1		
38	HD29260	043124	+18 2000	01 3755					1500	1	2-3
39	Comp							〃	1		
40	BIAS(4)			0209					0		
41	Comp							〃	1		
42	HD45412	012208	+30 3318	021100					1400	31	
43	Comp							〃	1		

CCD
Spectr. Temp. -100.2°C ..... Dome Temp./Hum. 17.5°C 74.7% Transparency Conditions ..Some haze.....634

Focus ....1230.....

Spectr. Temp. ..... Dome Temp./Hum. .....

Exp. Mtr.	Seeing	Pg. Mag.	Sp.	Inst.	Grating/ × Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
47	2"-3"	6.2	F-G	1945	.5835	90µ 300µ	6300Å	6 C1			
								3			
								3			
8	3"	~~8.0~~	F-G					4		~ 400	
								3			
								1			
								3			
10	3"-4"	7.0	F-G					2		660	
								3			
								3			
18	~~2~~-3"	6.4	F-G					4		~~650~~ 750	
								3			
								1			
								3			
31		6	F-G					2		1128	
								3			

pg 45 135

Date 1997 Oct. 11/12 Observers Kim/Nick/Tim

Emulsion Batches:

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Spectr. Temp.

Focus....

Spectr. Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp Mtr	Se
CE148 44	Comp							ThAr	15		
45	HD44950	06 1943	+07 0825	02 3551							3
46	Comp							"	1.		
47	Comp							"	1		
48	HD 32456	04 5818	+55 1300	03 1041					1648	14	3
49	Comp							"	1		
50	BIAS (4)			03 40					0		
51	Comp							"	1		
52	HD52973	06 5811	+20 4302	03 4622					480	19	2
53	Comp							"	1		
54/60	FLATS x 7							TuNG	1.3s		
61	BIAS (4)			04 06							

Spectr. Temp. ..... Dome Temp./Hum. +6.4°C 82 1/4 Transparency Conditions ..... cloudy to clear ....

Focus 2.30

136

Spectr. Temp. ..... Dome Temp./Hum. .....

Exp. Mtr.	Seeing	Rig. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				Echelle 19.45			6300	3			
	3"	6.5	F-G					4			
								3			
								3			
14	3"	7.5	F-G					5			
								3			
								1			
								3			
79	2-3"	4	F-G					6			
								3			
					H: 3504 = 1230			2			
								1			

137 pg#1 Sun/Mon

Date 1997 Oct 12/13 Observers K.S./Kat.Th.

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CE148 62/63	Inboard/outboard							ThAr	45/1.2
64	BIAS(4)			1823					
65	Comp							Th Ar	1s
66	HD 187929	194723	+00 44 56	18 3153					490
67	Comp							"	1s
68	Comp							"	1s
69	HD 188727	195129	+16 2211	18 4406					1199
70	Comp							"	1s
71	comp							"	1
72	HD 176155	185348	+17 1335	19:07 43					1200
73	Comp							"	1
74	BIAS[47]			1929					0
75	Comp							"	1s
76	HD 177724	190049	+13 4253	19 3213					216
77	Comp							"	1s

CCD Spectr. Temp.

Focus 12

Spectr. Temp.

Exp Mtr 3.2s

Se

CCD
Spectr. Temp. -101.3°C Dome Temp./Hum. +13°C 7506H Transparency Conditions ... increasing cloud

Focus ... 1232

138

Spectr. Temp. ... Dome Temp./Hum. ...

Exp. Mtr.	Seeing	Pr. Mag.	Sp.	Inst.	Grating/ × Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				Echello 17.45	.5835	90u 350	6300P	1/2			
					W = 90u H = 300u			1			
								3			7K
62	2"	4	F-G					2			2K
4K								3			9.5K
								3			
50		5.7	F-G					4			1.4K
								3			
								3			
46	2"	6.0	F-G					5			1.4K
								3			
								1			
								3			
80	2"	2	A					2	Tellurics Std		1.5K
								3			

139 P942

Sun / moon

Date 1997 Oct 12/13 Observers Kis / Tu

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CE14878	comp							ThAr	1s
79	HD187691	194614	+110955	19:35:40					90s
80	comp							"	1s
81	Comp							"	1s
82	HD194572	203929	+351338	195842					180s
83	Comp							"	1s
84	B/A/S(4)			2030					0
85	Comp							"	1s
86	HD17463	024303	+682827	204028					1600
87	Comp							"	1s
88	Comp							"	1s
89	HD187921	194724	+271200	21406					1800
90	Comp							"	1s
91	B/H S(4)			2146					0
~~92~~	~~Comp~~		LOST	in CRASH				"	1

Spectr. Temp. −99.6°C Dome Temp./Hum. 11.5°C 84%H Transparency Conditions OK for now

Focus 1232

Spectr. Temp. −100.0°C Dome Temp./Hum. +10.5°C 84.4%H

Exp. Mtr.	Seeing	Pfg. Mag.	Sp.	Inst. T, I+	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				Echelle 14.45	0300m W .5835 H	90u=.265 300u	6300A	5			
52		5	F					6			
								3			9K
								3			
31	2"	6.2	F-G					4			
								3			
								1			
								3			
44	2-3	6						2		Part cloudy	1.4K
								3			
								5			9.5K
31	2"5"	7.0	F-G					5			
								3			8.4K
								1			
								3			

141 pg #3

Sun/Moon

Date 1997 Oct 12/13 Observers Kis/Tan

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Spectr. Temp / Focus / Spectr. Temp — Exp Mtr.
Ce14893	HD 198726	20 4713	+275232	21 52 56					1500	39
94	Comp							ThAr	1s	
95	Comp							"	1s	
96	HD 203156	21 1523	+374855	22 22 11					148	34
97	Comp							"	1s	
98	Comp							"	1s	
99	HD 201078	21 0218	+30 4701	22 51 56					1497	37
900	Comp							"	1s	
901	BIAS(4)			23 18					0	
902	Comp							"	1s	
03	HD 213307	22 25 24	+575300	23 22 46					589	41
04	Comp							"	1s	
05	Comp							"	1s	
06	HD 212466	22 19 24	+552800	23 36 22					1297	19
07	Comp							"	1s	

Spectr. Temp. ..... Dome Temp./Hum. ..... Transparency Conditions ..Some cloud.....

Focus ...~~2.32~~ 1.92 .....

Spectr. Temp. ..... Dome Temp./Hum. ..... CD

Comparison Filter	Comparison Exp	Exp. Mtr. 13.20V	Seeing	Pg Mag.	Sp.	Inst. ~~Cass~~ Echelle	Grating/ x Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
	1560	39	3-4"	5.8	F-G	~~CASSEG~~ 19.45	0300	90u 300u	6300Å	1	*	Reset scrion 20s and eepheus	1K
	1s									2		My error for typing too much into buffer	2K
	1s									3			
	1496	34	3-4							2			1K
	1c									3			
	1s									3			
	1497	37	3"	5.9	F-G					4			
	1s									3			
	c									1			
	1s									3			
	5[illegible]	51		4	F-G					2			2K
	1s									3			
	1s									3			
	1[illegible]	19	3"	6.6	K					5			
	1s									3			

143 Pg#4 Sun/Mon

Date 1997 Oct 12/13 Observers Kis/Tu

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
ce14908	Comp							ThA	1s
909	HD29260	04 31 24	+18 20 00	00 03 35					1305
910	Comp							"	1s
~~911~~	~~BIAS(4)~~			~~00 27~~					0
912/17	FLATS x 7							TuG	1.3s
18	BIAS(4)			00 55				0	~~1.3s~~
ce14919	Comp							ThA	1s
20	HD44990	06 19 49	+07 08 25	01 13 07					
21	Comp							"	1s
22	Comp							"	1s
23	HD45412	06 22 08	+30 33 18	01 49 12					1526
24	Comp							"	1s
25	BIAS(4)			02 16					0

Spectr. Temp. ..... Dome Temp./Hum. 10.2°C 84%H Transparency Conditions ..Clouding in.....

Focus .....232..... 144

Spectr. Temp. ..... Dome Temp./Hum. ..... 6 0 256 1024 4 1 CCDFMT

Exp. Mtr.	Seeing	Pg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				1945	.5835	90u 300u		3			
6	3'							6		clouded	
								3			
								1			
100 tscale					350u = .230			1			
using 100 tscale					~~H = 350 = 230~~			1			
					H = 300u = .235			3			
6	3"-5"	65	FG					5		some cloud → 700	
								3		&	
								3			
26								4			137
								3			
								1			

145 PG #1

Date 1997 Oct 13/14 Observers Vnk/Kiss/Lu

Emulsion Batches:
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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CE14926/27	Inboard/Outboard							ThAr	1.5/10
28	BIAS(4)			1849					
29	comp							"	1
30	HD213307	22 25 24	57 53 00	18 57 23					540
31	Comp							"	1
32	Comp							"	1
33	HD187572	203529	351338	19:1242					1800
34	Comp							"	1
35	Comp							"	1
36	HD187929	194723	004456	194651					578
37	Comp							"	1
38	Comp							"	1
39	HD176155	185348	+171335	200151					1492
40	Comp							"	1
41	BIAS(4)			2029					0

CCD

~~Spectr.~~ Temp. $-100.1^{\circ}C$ Dome Temp./Hum. $15.9^{\circ}C / 86.8\%$ Transparency Conditions partly clear

Focus .232

Spectr. Temp. ..... Dome Temp./Hum. ..... 0 0 256 1024 4 1 CCDFMT

146

Exp. Mtr.	Seeing	Rec. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				19.45	.5835	90μ 300μ	6300	1/2			
								1			
								3			
68	3"	4	F-G					4			
								3			
								3			
27		6.6	F-G					5			
								3			
								3			
60		4	F-G					6			
								3			
								3			
31		6	F-G					2			
								3			
								1			

PG#2 147

Date 1997 Oct 13/14 Observers VnK / Kiss / Lu

Emulsion Batches:
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CCD
Spectr. Temp.
Focus .....
Spectr. Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp. Mtr	See
cE14942	comp							ThAr	1s		
43	HD187691	19 46 14	10 09 55	20 33 13					1224	37	3"
44	comp							"	1		
45	comp							"	1		
46	HD188727	19 51 29	16 22 11	20 56 52					1500	30	
47	comp							"	1		
48	BIAS(4)			21 23					0		
49	comp							"	1		
50	HD187921	19 47 24	27 12 00	21 27 23					1500	8	
51	Comp							"	1		
52	Comp							"	1		
53	HD203156	21 15 23	+37 48 55	21 56 43					1500	22	
54	Comp							"	1		
55	comp							"	1		
56	HD198726	20 47 13	27 52 32	22 25 43					1500	14	
57	comp										

CCD
Spectr. Temp. −100.2°C Dome Temp./Hum. 15.3°C / 88.8% Transparency Conditions haze

Focus .....

Spectr. Temp. ..... Dome Temp./Hum. .....

Comparison Filter	Exp.	Exp. Mtr.	Seeing	Rg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
Ar	1s					19,45	15835	90 µ 300 µ	6300	3			
	4m	37	3"	5	F8					4			
	1									3			
	1									3			
	45s	30		6	F-G					5			
	1									3			
	0									1			
	1									3			
	150	8		7.5	F-G					6			
	1									3			
	1									3			
	150	22		5.8	F-G					4			
	1									3			
	1									3			
	120	24		5.6	F-G					5			
										3			

149 PG #3

Date 1997 Oct 13/14 Observers Vnk/Kis/Lu

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CE14958	BIAS(4)			22 52					
59	comp							ThAr	1s
60	HD201078	21 02 18	30 47 01	22 56 45					37
61	Comp							"	1
62/68	flats							Tung	1.3s
69	BIAS(4)			23 33					
70	Comp							Th Ar	1s
71	HD213307	22 25 24	57 53 00	23 50 58					4m
72	comp							"	1s
73	comp							"	1
74	HD212466	22 15 24	+55 28 00	00 03 44					15/18
75	Comp							"	1
76	BIAS(4)			00 28					0

CCD

Spectr. Temp. −100.2°C Dome Temp./Hum. 15.2°C / 88.5% Transparency Conditions clear 150

Focus .....

Spectr. Temp. ..... Dome Temp./Hum. .....

Exp. Mtr.	Seeing	Rfg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				19.45	.5835	90µ 300µ	6300	1			
								3			
7		5.8	F-G					6		cloudy ~700 max	
								3			
Tscale=100						90µ 350µ		2			10.5K
								1			
Tscale=1000								3			
50	4"	4	F-G					4		clear up again	26K
								3			
								3			
1:		6.6	G					5		~600	
								3			
								1			

15|

Tues/Wed

Date ...1.9.9.7..O.c.t..1.4./.1.5.. Observers .K.i.s.l.i.n.....

Emulsion Batches:

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CCD

Spectr. Temp.

Focus....2

Spectr. Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp Mtr	Se
ce149 77/78	Inb/out							Th/Ar	1·3/·7		
79	B/HS(4)			232417							
80	Comp							Th Ar	1		
81	HD157572	20 3429	+35 1338	23 3105					1120	13	4
82	Comp							"	1		
83	Comp							"	1		
84	HD 203156	21 15 23	+37 4855	235644					1500	12	
85	Comp							"	1		
86	Comp								"		
87	HD 203156	"	"	00 2702					682	7	4
88	Comp							"	"		
89	BIAS (4)			00 40					D		
90/96	FLATS x 7							Tung	1·3s		

CCD
Spectr. Temp. −100.3°C Dome Temp./Hum. +11.0°C 51.7% Transparency Conditions Clearing Fast 1.5 2
Focus 2.30 clouding in fast too.
Spectr. Temp. ..... Dome Temp./Hum. +08.4°C 55.7%

Exp. Mtr.	Seeing	Pg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				Echelle 19.45	0300 l/mm .5835	90u W 350u M		1/2	focus test	CCD FAST 0 0 128 1024 8 1	
								1		0 0 256 1024 4 1	
								3	Note - Although hartmann mask was loaned after Hartmann test; It apparently was still blocking signal till it was Rehomed for exp #CE14986.		66k
13	4'-6"	66	F-G					4			200!
								3			
								3			
27		58	F-6					5			~200
								3			7k
								3	Redone after Rehoming Hartmann mask		11.3k
7	4-6"	5-8	F-6					6			~300
								3			11k
								1			
								3			11.5k

PG #1 Wed/Thurs

153 1997 Oct 15/16 Vnk/K13/Lu

Date ..... Observers .....

Emulsion Batches:

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Spectr. Temp.

Focus 7

Spectr. Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp. Mtr	Se
CE14997	BIAS(4)			21 30							
98	comp							ThAr	1s		
99	HD187929	19 47 23	00 44 56	21 37 51					600	42	
14500	comp							"	1s		
01	comp							"	1s		
02	HD188727	19 51 29	16 22 11	21 52 20					1200	24	
03	comp							"	1		
04	comp							"	1		
05	HD197572	20 39 29	35 13 38	22 16 59					1700	18	
06	comp							"	1		
07	BIAS(4)			22 46					0		
08	comp							"	1		
09	HD203156	21 15 23	37 48 55	22 50 41					1200	24	
10	comp							"	1		
11	comp							"	1		
12	HD213307	22 25 24	57 53 00	23 15 44							

Spectr. Temp. −100.5°C Dome Temp./Hum. 7.8°C/64.5% Transparency Conditions ... partly clear

Focus ... 227 /54

Spectr. Temp. ... Dome Temp./Hum. ... 0 0 256 1024 4 1 CCDFMT

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				19.45	.5835	90μ 300μ	6300	1			
								3			
42	3-4	4	F-G					4	CEP.		
								3			
								3			
24		6.5	F-G					5			
								3			
								3			
18		6.6	F-G					6			
								3			
								1			
								3			
24		5.8	F-G					4			
								3			
								3			
		4	F-G					5			

PG 2
155

Date 1997 Oct 15/16 Observers Vnk/Ki3/Lu

Emulsion Batches:
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CCD
Spectr. Temp
Focus
Spectr. Temp

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp Mtr	Sc
CE15013	comp							ThAr	1		
14	comp							"	1		
15	HD210745	220723	574230	232712					300	59	
16	comp							"	1		
17	comp							"			
18	HD224014	234923	565635	233636					600	46	
19	comp							"	1		
20	BIAS(4)			2348					0		
21	comp							"	1		
22	HD17463	024303	+682827	235459					1800	22	
23	comp							"	1		
24	comp							"	1		
25	HD29260	043124	18 20 00	00 3305					180	11	
26	comp							"	1		
27	BIAS(4)			0105					0		

CCD
Spectr. Temp. −100.3°C Dome Temp./Hum. 6.8°C/69.0% Transparency Conditions Clear thin clouds .56

Focus .227

Spectr. Temp. ..... Dome Temp./Hum. ..... 0 0 256 1024 4 1 CCDFMT

Comparison Filter	Comparison Exp	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
Gr	1					19.45	.5835	90μ 300μ	103O	3			
	1									3			
	300	59		3.5	K1					6	CCP		
	1									3			
										3			
	600	46		4.5	G					4			
	1									3			
	60									1			
	1									3			
	180	22		6.1	F-G					5			
	1									3			
	1									3			
	150	11		6.3	F-G					6			
4	1									5			
	60									1			

PG 3

157 Date 1997 Oct 15/16 Observers VnK / KTB / LH

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CE15028	Comp							ThAr	1s
29	HD32456	04 58 18	55 13 00	01 22 10					1800
30	comp							"	1
31	Comp							"	1
32	HD30282	044106	+363200	015816					1811
33	Comp							"	1
34	BIAS(4)			0230				"	0
35/41	flats							Tung	1.3s
42	comp							ThAr	1s
43	HD45412	06 22 08	30 33 18	02 54 50					1800
44	Comp							"	1s
45	Comp							"	7s
46	HD52973	06 58 11	20 43 02	03 31 38					1280
47	Comp							"	1
48	BIAS(4)			0355					0

CCD Spectr. Temp. −100.2° C ... Dome Temp./Hum. 6° C / 70 8 % Transparency Conditions ... thin clouds

Focus ..... ~~.2277~~ .2277.

Spectr. Temp. ..... Dome Temp./Hum. ..... 0 0 256 1024 4 1 CCDFMT

158

Comparison Filter	Comparison Exp	Exp. Mtr.	Seeing	Dtg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
Ar	7 1/2 1s					19,45	.5835	90 μ 300 μ	6300	3			
	1800	1?	3-4°							4			
	1									3			
	1									3			
	1800	0		7.5	F-G					5			
	1									3			
	0							70 μ 300 μ		1			
ng	7 1/2	+scale 100						70 μ 350 μ		2			
Ar	1s	+scale 1000		6	F-G			90 μ 300 μ		3			
	1800	1?		↓	↓					6		through clouds fairly heavy	
	1s									3			
	1s									3			
	1200	42		4	F-G					4		through fairly heavy clouds	
	1									3			
	0									1			

PG 4
159

Date 1997 Oct 15/16 Observers Vnk/Kis/Lu

Emulsion Batches:
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CCD
Spectr. Temp.
Focus.....
Spectr. Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp. Mtr	Se
CE15049	comp							ThAr	1s		
50	HD44990	06 19 49	07 08 25	04 01 44					1806	13	
51	comp							"	1s		
52	BIAS(4)			04 33							

CCD

Spectr. Temp. −100.2°C Dome Temp./Hum. 5.5°C / 74.7 Transparency Conditions Patches 160

Focus .227

Spectr. Temp. −100.0°C Dome Temp./Hum. 5.2°C / 75.0%

Exp. Mtr.	Seeing	Pig. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				19.45	.5835	90μ 300μ	6300	3			
13		6.8	F-G					5	CEP	fairly cloudy	
								3			
								1			

16| PG1 Thurs/Fri

Date 1997 Oct 16/17 Observers Vnk/Krs/Lu

Emulsion Batches:

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CCD
Spectr. Temp.
Focus.....
Spectr. Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp Mtr	Se
CE1505 3/54	Inboard/outboard							ThAr	1.5/1.0 s		
55	BIAS(4)			22 28							
56	comp							"	1s		
57	HD213307	22 25 24	57 34 15	22 34 15					1500	12	
58	comp							"	1s		
59	comp							"	1s		
60	HD203156	21 15 23	37 48 55	23 06 00					1648	20	
61	comp							"	1s		
62	BIAS(4)			23 35					0		
63	comp							"	1s		
64	HD198726	20 47 13	27 52 32	23 40 08					350	1	
65	comp							"	1s		
66	comp							"	1s		
67	HD29260	04 31 24	18 20 00	23 54 32					1793		
68	comp							"			

CCD

Spectr. Temp. -10.3°C Dome Temp./Hum. 7.8°C/56.7% Transparency Conditions partly clear.

Focus 227

Spectr. Temp. Dome Temp./Hum. 0 0 256 1024 4 1 CCDFMT

162

Exp. Mtr.	Seeing	Ptg Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				19.45	0.5835	90μ 300μ	6300	½			
								1			
								3			
12	2"-3"	4	F-G					4	CEP	-through clouds	
								3			
								3			
20		5,8	F-G					5		through clouds	
								3			
								1			
								3			
1		5,8	F-G					6		readout only due to clouds	
								3			
								3			
		6,3	F-G					4			

PG#2 163

Date 1997 Oct 16/17 Observers Vuk / Kis / Lu

Emulsion Batches:
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Spectr. Temp.
Focus .....
Spectr. Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp. Mtr.	Seeing
CE15069	BIAS(4)			00:29							
70	comp							ThAr			
71	HD45412	6:22:08	30:33:18	00:31:10	00:48:40				1040	7	
72	comp							"			
73	~~BIAS(4)~~			01 06				"			
74/80	flats							Tung	1.3s	(Tscale=1	

Spectr. Temp. -101 °C Dome Temp./Hum. 5.8°C / 60.6% Transparency Conditions mostly cloudy

Focus .227

Spectr. Temp. ..... Dome Temp./Hum. .....

0 0 256 1024 CCDFMT

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				19.45	.5835	90μ 300μ	6300	1			
								3			
7		5.1	F-G					5			
								3			
								1			
(Tscale=100)						90μ 350μ		2			11.7K

PG 165 Fri/Sat.
1997 Oct 17/18

Date ..... Observers Mkit/Lu

Emulsion Batches:
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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC49140/41	Inboard/outboard							FEAR ND 3	4/7
42	BIAS(4)			18 34					0
43	comp							"	4
44	HD213014	22 23 24	16 46 00	18 45 55					124
45	"			18 50 20					600
46	comp							"	4
47	comp							"	4
48	HD222994	23 40 36	24 55 00	19 15 52					800
49	"	"	"	19 30 20					800
50	comp							"	4
51	HD222994	"	"	19 45 43					799
	~~xx~~								~~xxx~~
52	Bias(4)			20 13					
53	Comp.								
54	HD222994	"	"	20 16 46					800

Spectr. Temp.
Focus
Spectr. Temp.

Exp Mtr | Sec

HV=1
6K
HV=1
2860
795 2"
800

Spectr. Temp. −100.6°C Dome Temp./Hum. 8.5°C/51.4% Transparency Conditions ....fine.....166

Focus .....6.80.....

Spectr. Temp. ..... Dome Temp./Hum. .....

400 0 50 1024 4 1 CCDFMT

Comparison/Filter	Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
Ar 03	4/3					CASS CCD	1800 l/mm 47.06	306	5185	1/2			
	0									1			
"	4									3			
	124	HV=1300 6K		7.7	dG8					4	std vel		
	600	HV=1000 2660								5	"		
"	4									6			
"	4									7			
	500	795	2"	9.5	?					8	W CMa star.		
	800	925		"						9			
"	4									10			
	700	965		"						X8	-Reset.		
	~~600~~	~~?~~								11	400 0 50 1024 4 1 CCDFMT	CR RSM. (Typo bug!).	
											400 0 50 104 4 1		
										2			
	500	92		"						3			

Pg 167

Date 1997 Oct 17/18 Observers MKi+/Lu

Emulsion Batches:
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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CCD49155	HD222994	23 40 36	24 55 00	20 30 51					800
56	comp							FeAr ND3	4s
57	HD222994	"	"	20 46 13					800
58	"	"	"	20 59 56					800
59	comp							"	4
60	BIAS(4)			21 14					0
61	HD222994	"	"	21 15 38					800
62	"	"	"	21 29 26					800
63	comp							"	4s
64	HD222994	"	"	21 44 20					805
65	"	"	"	21 58 15					800
66	comp							"	4
67	BIAS(4)			22 13					0
68	HD222994	"	"	22 14 41					800
69	"	"	"	22 28 27					800
70	comp							"	4

CCD
Spectr. Temp.
Focus
Spectr. Temp.

Exp Mtr
953
1066
938
963
947
1010
970
1180
963

CCD
Spectr. Temp. −100.5°c Dome Temp./Hum. 6.7°c/62% Transparency Conditions fine, cool 168.

Focus 6.80

Spectr. Temp. ..... Dome Temp./Hum. ..... 400 . 50 1024 4 1 CCDFMT

Comparison Filter	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
80	953	2"	9.5	?	CASS CCD	1800 l/mm 47.06	30μ	5185	4	W Lyr a star		
4									5			
80	1066		"						6			
800	1138		"						7		S/N ~ 85	
4									8			
0									1			
80	963	3'-4"	"						9			
800	847		"						10			
4									11			
80	1010	2-3	"						12			
800	1070		"						13			
4									13			
0									1			
80	1180		"						14			
80	1163		"						15			
4									15			

PG 3 169

Date 1997 Oct 17/18 Observers MKi+/Lu

Emulsion Batches: .....

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc49171	HD222994	23 40 36	24 55 00	22 43 34					800
72	"	"	"	22 57 21					800
73	~~BIAS(4)~~ comp							FeAr ND 3	4
74	BIAS(4)			23 12					0
75	comp							"	4
76	HD222368	23 34 48	05 05 03	23 18 03					100
77	comp						FeAr ND 3	~~T~~ ~~ND 4~~	4
78/87	flats							Tung ND 4	6
	~~same~~ Vnk/K98/Lu								
cc49188/89	Inboard/outboard							FeAr ND 3	4/7
90	BIAS(4)			23 53					
91	comp							"	4
92	HD197572	20 39 29	35 13 38	00 01 43					480
93	comp							"	4
94	comp							"	4
95	HD203156	21 15 23	37 48 55	00 19 35					300

CCD

~~Spectr.~~ Temp.

Focus .....

Spectr. Temp.

Exp Mtr	Se
1177	2
1176	
92K	
300	
5	
1K	

CCD
Spectr. Temp. −100.5° c Dome Temp./Hum. 5.1°c / 62.1% Transparency Conditions fine 17.0

Focus 6.180

Spectr. Temp. Dome Temp./Hum. 400 0 50 1024 4 1 CCDFMT

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
1177	2"-3"	9.5	?	CASS CCD	1800 l/mm 47.06	306μ	5185	16	WUMa star,		
1176	"	"						17			
								18			
								1			
								19			
9.2K		4.1	F7V					20			
								21			
								2			13.5K
	FOCUS 6.78			CASS CCD	1800 l/mm 56.35	306μ	6600	3/4			
								1			
								5			
3000		6	F-G					6	CEP		
								7			
5.1K		5.8	F-G					7 8	CEP		

PG#4 171

Date 1997 Oct 17/18 Observers Vnk/Ksg/Lu

Emulsion Batches:

CCD
Spectr. Temp.
Focus
Spectr. Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp. Mtr.	Se
cc49196	comp							FeAr ND 3	4		
97	comp	(2000)						"	4		
98	BD+74 4379	20 57 21	40 10 39	00 30 26					1400	618	
99	comp							"	4		
cc49200	BIAS(4)			00 55					0		
01	comp							"	4s		
02	HD214975	22 36 54	56 19 00	01 01 24					600	1280	
03	comp							"	4s		
04	comp							"	4		
05	HD213307	22 25 24	57 53 00	01 16 22					120	10K	
06	comp							"	4		
07	comp							"	4		
08	1X Cas	00 04 51	50 14 06	01 23 17					1800	265	
09	comp							"	4		
cc49210	BIAS (4)			01 55							

CCD
Spectr. Temp. −100.2°C Dome Temp./Hum. 46°C/62% Transparency Conditions fine 772

Focus 6.78

Spectr. Temp. ..... Dome Temp./Hum. ..... 400 • 50 • 1024 4 1 CCDFMT

Comparison Filter	Comparison Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
						CASS CCD	1800 l/mm 56,35	30µ	6600	9			
										9			
		618		10	F-G					10	CEP Unk		
										11			
										1			
										11			
		1280		8	F-G					12			
										13			
										13			
		10K		4	F-G					14			
										15			
										15			
		265		11,5	F-G					16			
										17			
										1			

PEG S 173

Date 1997 Oct 17/18 Observers VnK/Ks8/Lu

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp. Mtr	Sc
cc49211	comp							FeAr ND 3	4		
12	HD236429	00 24 24	59 40 00	02 00 30					900	1310	3
13	comp							"	4		
14	comp							"	4		
15	HD25361	03 56 42	58 23 00	02 26 48					600	2370	2
16	comp							"	4		
17	comp							"	4		
18	HD32456	04 58 18	55 13 00	02 41 29					480	2560	
19	comp							"	4		
20	BIAS(4)			02 50 40					0		
21	comp							"	4		
22	HD56167	07 10 54	69 52 00	02 57 25					600	1265	
23	comp							"	4		
24	comp										
25	HD30282	04 41 06	36 32 00	03 15 44					1500	300	
26	comp							"	4		

CCD
Spectr. Temp
Focus
Spectr. Temp

CCD
Spectr. Temp. −100.3°C Dome Temp./Hum. 4.3°C/64.5% Transparency Conditions ..... fine ..... 1.7 ¢.

Focus ..... 6.78 .....

Spectr. Temp. ..... Dome Temp./Hum. .....

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				CASS CCD	1800 l/mm 56,35	306 μ	6600	18			
1310	3"	8+1	F-G					19			
								20			
								20			
2370	2"	8	F-G					21			
								22			
								22			
2560		7.5	F-G					23			
								24			
								1			
								24			
1265		8.3	Ca+					25			
								26			
								26			
1000		~~7.5~~ 7.9	F-G					27		— probably wrong *	
								28			

PG 6 175 Fri/Sat

Date 1997 Oct 17/18 Observers Vnk/Ksz/Lu

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp Mtr
cc49227	comp							FeAr ND3	4	
28	HD29260	04 31 24	18 20 00	03 59 41					300	3.7K
29	comp							"	4	
30	BIAS(4)			04 06					0	
31	comp							"	4	
32	BD+3 601	04 24 33	04 07 24	04 13 53					900	610
33	comp							"	4	
34	comp							"	4	
35	HD44990	06 19 49	07 08 25	04 33 14					300	5.1K
36	comp							"	4	
37	comp							"	4	
38	HD52610	06 56 48	-01 00 00	04 41 54					600	860
39	comp								4	
40	comp								4	
41	HD62509	07 39 12	28 16 04	04 57 33					15	6k
42	comp								4	

CCD

~~Spectr. Temp.~~ −100,2°C Dome Temp./Hum. 3,7°C/66,8% Transparency Conditions fine 1.76

Focus 6,78

Spectr. Temp. ..... Dome Temp./Hum. ..... 400 · 50 1026 4·1

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				CASS CCD	1800/mm 56,35	306μ	6600	3			
3.7K	2"	6,5	F-G					4			
								5			
								1			
								5			
610		9,4	A7					6			
								7			
								7			
5,1K		6,8	F-G					8			
								9			
								9			
860		?	?					10			
								11			
								12			
12k		1.14	KOIII					13			
								14			

PG 7 177

Date 1997 Oct 17/18 Observers Vnk/Kss/Lu

Emulsion Batches:
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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc 49243	comp							FeAr ND3	4
44	HD 52973	06 58 11	20 43 02	05 03 17					66
45	comp							"	4
46	comp							"	4
47	HD 65583	07 54 18	29 31 00	05 08 56					300
48	comp							"	4
49	BIAS(4)			05 15					0
50/56	flats							Tung ND 45	6

CCD
Spectr. Temp
Focus
Spectr. Temp

Exp. Mtr

CCD
Spectr. Temp. −100.2° C. Dome Temp./Hum. 3.9°C/67.1 Transparency Conditions ... fine ... 1.2.8.

Focus ..... 6,78 .....

Spectr. Temp. ..... Dome Temp./Hum. .....

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				CASS CCD	1800 l/mm 56,35	30μ	6600	15			
10k		4	F-G					16			
								17			
								18			
2550		7.0	dG7					19			
								20			
								1			
								3			1.25

PG 1 179 Sat/Sun

Date 1997 Oct 18/19 Observers MKi+/Lu

Emulsion Batches:
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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc49257 1/58	Inboard/outboard							FeAr ND3	4/7
59	BIAS(4)			1833					
60	BIAS(4)			1834					
61	comp							"	4
62	HD 218014	22 23 24	16 46 00	184237					480
63	comp							"	4
64	comp							"	4
65	HD 222994	23 40 36	24 55 00	185708					800
66	"	"	"	191126					800
67	comp							"	4
68	BIAS(4)			1926					0
69	HD 222994	"	"	192825					800
70	"	"	"	194209					800
71	Comp.							"	4
72	BIAS(4)			1958					0

CCD
Spectr. Temp. -100.3°C Dome Temp./Hum. 9.0°C/60.1% Transparency Conditions ... fine ... 180 ...

Focus ... 6.80 ...

Spectr. Temp. ... Dome Temp./Hum. ... 400 0 5 1024 4 1 ccdIMT

Comparison Filter	Comparison Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
GY 03	4/7					CASS CCD	1800 l/mm 4706	306 μ	5185	3/4			
										1			
										1			
	4									5			
	480	2700	1"	7.7	dG8					6	std vel		
	4									7			
	4									7			
	1800	1288	1"	9.5	F5					8	WUMa star		
	800	1340								9			
	4									10			
	0									1			
	800	1360								11			
	800	1386								12			
	4									13			
	5									1			

PG 2 18/

Date 1997 Oct 18/19 Observers Mkit/Lu

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc49273	HD222994	23 40 36	24 55 00	20 00 13					800
74	"	"	"	20 14 01					800
75	comp							FeAr ND3	4
76	HD222994	"	"	20 29 13					806
77	"	"	"	20 43 52					800
78	comp							"	4
79	BIAS(4)			20 59					0
80	HD222994	"	"	21:00:17					800
81	"	"	"	21:15:14					800
82	comp	"						FeAr ND3	4
83	HD222994	"	"	21:33:29					800
84	"	"	"	21 47 24					800
85	comp							"	4
86	BIAS(4)			22 02					0
87	HD222994	"	"	22 03 34					800
88	"	"	"	22 17 17					821

CCD

Spectr. Temp. −100.3°c ... Dome Temp./Hum. 8.4°c/62.4% Transparency Conditions ... fine ... 182.

Focus ... 6.80 ...

Spectr. Temp. ... Dome Temp./Hum. ...

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
1376	1"	9.5	FS	CASS CCD	1800 l/mm 47.06	306μ	5185	14	W UMa star		
1365		"	"					15			
								16			
1300		"	"					17			
1320		"	"					18			
								19			
								1			
1185		"	"					20			
1027		"	"					21			
								22			
1006		"	"					23			
941		"	"					24			
								25			
								1			
973		"	"					26			
~~920~~ 959								27			

PG 3 183 Sat/Sun

Date 1997 Oct 18/19 Observers MKi+/Lu

Emulsion Batches:
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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc49289	comp							FeAr ND 3	4
90	HD222994	23 40 36	24 55 00	22 33 16					800
91	"	"	"	22 47 01					800
92	~~BIAS(4)~~ comp							"	4
93	BIAS(4)			23 01					0
94	HD222994	"	"	23 02 54					800
95	"	"	"	23 16 52					800
96	comp							"	4
97	comp							"	4
98	HD222368	23 34 48	05 05 03	23 36 52					87
99	comp							"	4
cc49300	BIAS(4)			23 40					0
301/310	flats							Tung ND#4	6

CCD
Spectr. Temp
Focus
Spectr. Temp

Exp Mtr Sc
925
1000
1028
1056
10K

CCD

Spectr. Temp. -100.3°C Dome Temp./Hum. 7.4°C/65.4% Transparency Conditions fine 184

Focus 6.80

Spectr. Temp. Dome Temp./Hum.

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				CASS CCD	1800 l/mm	306 μ	5185	28			
925	1"	9.5	F5					29			
1000		"	"					30			
								31			
								1			
1028		"	"					5			
1056		"	"					7			
								8			
								8			
10K		4.1	F7V					9/6			
								1			
								2			13K

PG # 4 185

Date 1997 Oct 18/19 Observers Vnk/Kss/Lu

Emulsion Batches:

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Spectr. Temp.

Focus .....

Spectr. Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp. Mir	Se
CC49311/12	Inboard/outboard							Fe Ar ND 1	7/11		
13	BIAS(4)			00 22							
14	comp							"	7		
15	HD 213307	22 25 24	57 53 00	00 29 ~~45~~					377	50K	
16	comp							"	7		
17	comp							"	7		
18	VW Cas	01 05 49	61 45 12	00 43 56					188	200	
19	comp							"	7		
20	BIAS(4)			01 18							
21/22	flats							Tung ND 1	40		

Spectr. Temp. −100.3 °C Dome Temp./Hum. 7.3°C / 68.4% Transparency Conditions fine 186.

Focus 6.85

Spectr. Temp. ..... Dome Temp./Hum. .....

Comparison Filter	Comparison Exp	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
						CASS OCD	1500 l/mm 39.60	306 μ	3950	3/4			
										1			
										5			
		50K	1"	4	F-G					6			
										7			
										7			
		700								8			
										9			
										1	Test		
										2			

PG S 187

Date 1997 Oct 18/19 Observers Vnk/Ksz/Lu

Emulsion Batches:
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CCD
Spectr. Temp
Focus
Spectr. Temp

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp Mtr	Sc
cc 49328/29	Inboard/outboard							FeAr ND3	4/7		
cc 49330	BIAS(4)			01 48							
31	comp							"	4		
32	HD 214975	22 36 54	56 19 00	01 55 31					254	900	1
33	Comp							"	4		
34	Comp							"	4		
35	IX Cas	00 04 51	50 14 06	02 06 41					1800	380	
36	Comp							"	4		
37	BIAS(4)			02 38					0		
38	comp							"	4		
39	HD 30282	04 41 06	36 32 00	02 42 45					900	6330	
40	comp							"	4		
41	+ comp							"	4		
42	HD 32456	04 58 18	55 13 00	03 03 47					420	550	
43	Comp							"	4		

CCD

Spectr. Temp. ..... Dome Temp./Hum. 6.8°C / 73.40% Transparency Conditions ... fine ... 188.

Focus ..... 6.75 .....

Spectr. Temp. ..... Dome Temp./Hum. .....

Comparson Filter	Comparson Exp	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
Ar	4/7					CASS CCD	1800 g/mm 56.35	306 μ	6600	3/4			
3										1			
	4									5			
	254	900	1"	8	F-G					6			
	4									7			
	4									8			
	180	380		11.5	F-G					9			
	4									10			
	0									1			
	4									11			
	90	4730		7.5	F-G					12			
	4									13			
	4									13			
	42	2750		7.5	F-G					14			
	4									15			

PG 6 189

Date 1997 Oct 18/19 Observers VMK/KSZ/LW

Emulsion Batches:

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CCD Spectr. Temp.

Focus .....

Spectr. Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp Mtr	Sec
cc4934	comp							FeAr NO3	4		
45	HD25361	035642	582300	031543					480	2350	
46	comp							"	4		
47	comp							"	4		
48	HD56167	071054	695200	032858					834	1700	
49	comp							"	4		
50	BIAS(4)			0350					0		
51	comp							"	4		
52	BD+3 601	042433	040724	035205					900	957	
53	comp							"	4		
54	comp							"	4		
55	HD44990	061919	070825	041227					300	533	
56	comp							"	4		
57	comp							"	4		
58	HD52610	065648	-010000	042208					900	1100	
59	comp							"	4		

CCD
Spectr. Temp. −100.3°C Dome Temp./Hum. 5.9°C/75% Transparency Conditions ... fone ... 190.

Focus ... 6.75 ...

Spectr. Temp. ... Dome Temp./Hum. ...

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				CASS CCD	1800 l/mm 56.35	306μ	6600	15			
2350		8.	F-G					16			
								17			
								17			
1700		8.3	Ca+					18			
								19			
								1			
								19			
957		2.4	A7					20			
								21			
								21			
5.3		6.8	F-G					22			
								23			
								23			
1800		9.7	F-G					24			
								25			

PG 7 191

Date 1997 Oct 18/19 Observers VnK/KSB/Lu

Emulsion Batches:

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CCD

Spectr. Temp.

Focus .....

Spectr. Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp Mtr	Se
CC4936o	comp							FeAr ND3	4		
61	HD62509	07 39 12	28 16 04	04 42 37					~~10~~	BK	
62	comp							"	4		
63	comp							"	4		
64	HD52973	06 58 11	20 43 02	04 47 57					61	BK	
65	comp							"	4		
66	comp							"	4		
67	HD65583	07 54 18	29 31 00	04 54 23					480	UK	
68	comp							"	4		
69	BIAS (4)			05 04					0		
70/76	flats							Tung ND #5	6		
					ZZZ						

CCD
Spectr. Temp. −100.3°c Dome Temp./Hum. 5.7°c / 77.6% Transparency Conditions Clear 192

Focus 6.75

Spectr. Temp. ..... Dome Temp./Hum. .....

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				CASS CCD	1800 l/mm 56.35	306μ	6600	25			
8K		1,14	KOIII					26	std vel		
								27			
								28			
8K		4	F-G					28			
								29			
								29			
4.4K		7	dG7					30	std vel		
								31			
								1			
								2			

PH1 193 Sun/Mon

Date 1.9.97 Oct 19/20 Observers KRn / JTn

KRn = Kerton

Emulsion Batches: .....

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC493 77/78	In Lower Outboard								
79	Comp							FeAr N04	4s
80	HD 193322	20 1439	1900 40 25 13	18 56 38					
81	Comp								4s
82	BIAS (4)			19 04					0
83	Comp		2000					FeAr N05	4s
84	BD+61 411	02 26 35	+62 00 45	19 14 24					
85	Comp							FeAr	4s
86	"							"	4s
87	VES 735	02 20 07	2000 +61 07 03	19 35 20					237
88	Comp							"	4s
89	BIAS (4)			20 17					0
90	Comp							"	4s
91	HD 177124	19 00 49	1900 +13 42 53	20 26 39					160
92	Comp							"	4s
93	FLATS x 7							TUNG N05	4s

CCD
Spectr. Temp. ....−101.0.... °C Dome Temp./Hum. ....+10.0°C..68%H Transparency Conditions .... increasing..cloud..194

Focus .....6.95..... Dome Temp./Hum. ....+8.8°C..70%H ~~Bad window, Should be 450 Yoff~~

Spectr. Temp. ..... CD 510 0 50 1024 41 CCDFMT

Exp. Mtr.	Seeing	Pr. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
			Tgrating	CASSCCD	600C 7708	30u	5130Å	3/4		To 5430Å	
								5			4K
1.3K		5.84	09					6			6.7K
								7			
								8			
240	2"	11.18	08					9			
								10		Δα +00 00 47C δδ 00 00 12 Clear at end	good
		12						11			
232	<2"	12.8	09					12		Δα +00 00 38 Δδ +00 00 06 Clear at end	
								13			
								1			
								14			
2.2K	2"	2	A					15	Tellurics Std.		8.0K
								16			
								2			12K

pg #2 175 sun/mon

Date 1997 Oct 19/20 Observers K.r.a. / T.y

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Spectr. Temp. Evg Mtr	Spectr. Temp. Sec
cc49400	Comp							FeA NiO	4s		
01	HD 206183	213518	+563200	204343					245	310	42
02	Comp							"	4s		
03	HD 206183	"	"	205221					356	160	
04	Comp							"	4s		
05	HD 206183	"	"	210840					360	165	
06	Comp							"	4s		
07	BIAS(4)								0		
08	DARK	15 min							900		
09	BIAS(4)			2315					0		
10	Comp			2345				"	4s		
11	HD 206183	213518	+563200	234659					223	273	3"
12	Comp							"	4s		
13	HD 206183	"	"	235454					409	448	34
14	Comp							"	4s		
15	BIAS(4)			0113					0		

Spectr. Temp. ..... Dome Temp./Hum. +8.9°C 70.3%H Transparency Conditions ..Part. Cloudy:..... 196
— Mostly Cloudy

Focus ..... 6.9.5 .....

Spectr. Temp. CCD -100.3°C .... Dome Temp./Hum. +8.5°C 74.6%H

Exp. Mtr.	Seeing	Pt. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				CASSCCD	600c 27.08	30u	5130Å	17			V2K
310	2"	7.4	BO					18			1.2K
								19			
160								20		Hδ spectrum Line on 600 not seen on this exposure but seen on CCD 9401	
								21			
165								22			
								23			1.8K
								1			
								24			
								1			
								23			
423	3"	7.4	BO					24			
								25			
488	3-4"							26			
								27			
								1			

Pg#1 197 Mon/Tues

Date 1997 Oct 20/21 Observers Krn / Tm

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc494 16/17	Inboard / outBoard							FeAr NO4	4/6
18	BIAS (4)			1807					
19	Comp							"	4s
20	HD188209	19 48 58	+46 46 09	18 11 55					7s
21	Comp							"	4s
22	Comp							"	4s
23	HD177724	19 00 49	+13 42 53	18 18 47					29
24	Comp							"	4s
25	Comp							"	4s
26	HD206183	21 35 18	+56 32 00	18 27 22					312
27	Comp							"	4s
28	BIAS (4)			18 35					0
29	HD206183	"	"	18 36 25					364
30	Comp							"	4s
31	Comp							"	4s

CCD
Spectr. Temp.
Focus ... 6
Spectr. Temp.

Exp Mtr 1000V

CCD
Spectr. Temp. — °C Dome Temp./Hum. +7.0°C 61%H Transparency Conditions Fine 198

Focus 6.95

Spectr. Temp. ..... Dome Temp./Hum. ..... 4/5 0 50 1034 4 1 CCDFLAT

Exp. Mtr. no filter 1000V	Seeing	Pt'g Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				CASS CCD	0600C 27.08°	306u	5130	3/4	Rote looking slightly more Red than previous night due probably to grating Re-setting.		
						5145A		1			
						Actual 2 Raw 517		5			13K
2.5K	3"	5.62	09.5	Ib		I 2A		6	Normalization probable Std.		6.3K
								7			
								7			
3.8K		2	A					8	Telluric Std		10.8K
								9			
								9			14K
1.7K	4"	7.4	B0					10			4.9K
								10			
								1			
1.8K								11			
								12			11.6K
								12			

Pg #2 199 Mon/Tues

Date ..19.9.7..0.ct.20121. Observers ..K.r.n./...T.n.....

Emulsion Batches:
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Plate No.	Object	R.A. ~~1900~~ 2000	Declination ~~1900~~ 2000	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Spectr. Temp. / Exp. Mtr
CC49432	BD+61411	02 26 35	+62 00 45	18 50 42					1590	552
33	Comp							Feff ND4	4s	
34	Comp							"	4s	
35	VES 735	02 20 07	+61 07 03	19 26 46					2409	130
36	Comp							"	4s	
37	BIAS (4)			20 11					0	
38	VES 735	"	"	20 12 34					2400	23
39	Comp							"	4s	
40	VES 735	"	"	20 55 10					2632	138
41	Comp							"	4s	
42	BIAS (4)			21 42					0	
43	VES 735	"	"	21 42 55					2495	
44	comp			~~21 42 55~~				"	4s	
45	VES 735	"	"	22 28 00					2427	171
46	Comp							"	4s	
47	BIAS (4)			23 10					0	

Spectr. Temp. ..... Dome Temp./Hum. +61°C 64% H Transparency Conditions ... mostly clear ... 200

Focus ..... 6.95 .....

Spectr. Temp. ..... Dome Temp./Hum. + ...

Exp. Mtr.	Seeing	Pg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
552	3"-5"	11.18	08	Tgrating	600C 1/mm 27.08°	306μ	5130Å	13	std	Δd→00 00 40 ΔS →0 0036	
								14			1.6K
								14			
~130	3"-4"	12	0					15			
								16			
								1			
123								17			
								18			
138								19			
								5			
								1			
								~~15~~			
								16			
121								15			
								~~17~~			
								1			

PH#3 201 Mon/Tues

Date 1997 Oct 20/21 Observers K.C.N./J.T.

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
1151/1154	HD6314	00 58 59	39 27 18					4x	67 1/2 s
55/58	DARKS							4x	67 1/2 s
59/60	DARKS,							2x	133 1/3 s
61/62	HD6314							2x	133 1/3 s
CC49448	Comp							Fe Ar 404	4s
49	HD6314	00 58 59 (1900)	39 27 18	23 39 45					99
50	Comp							"	4s
51/57	FLATS x 7							JUNK MD5	4s
56	Comp								
54	not HD37468 Star to SE of ν ORI AB ~ 5 1/2 arc min								
60	Comp							"	4s
61	HD37468	05 33 44	-02 34 28	00 07 10					51
62	Comp							"	4s
63	BIAS(4)			00 10					0

Spectr. Temp.
Focus
Spectr. Temp.

Exp Mtr Se

1K

3K 7

Spectr. Temp. ..... Dome Temp./Hum. ..... Transparency Conditions . mostly cloudy 202

Focus .....

Spectr. Temp. ..... Dome Temp./Hum. . . +2.2°C . . 78.7% RH

Exp. Mtr.	Seeing	Pkg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
		6.57	FOV n		Above	306u	Slit		Seeing Test	Done west	
										medium NW wind.	
					600c 2708	306u	5130Å	7			14K
1K	4"	657	FOV n					8	Telluric Std		
								9			
								2			
								9			
								12			
								13			
3K	7"	381	09.5 V					14			5.7K
								15			
								1			

203 pg#1 Tues/Wed

Date 1997 Oct 21/22 Observers Vnk/Tn

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp. Mtr
CC494 64/65	Inboard / outboard							FeAr IND4	4/6	15 min
66	Comp							10	4s	
67	HD 187691	194614	+10 0955	1932				~~FeAr~~ ~~IND3~~ ~~227~~ ~~4s~~ ~~227~~		76K
68	Comp							IND3	4s	
69	BIAS (4)			1938					0	
70	Comp							11	4s	
71	HD 197572	203929	+35 1338	19 4301					5~~4~~6	6.5K
72	Comp							11	4s	
73	Comp							11	4s	
74	HD 177441	185936	+01 0900	20 00 32					900	692
75	Comp							11	4s	
76	Comp							11	4s	
77	BD +39 4379	205721	+40 1039	20 2115					1808	540
78	Comp							11	4	
79	BIAS (4)			2053					0	

Spectr. Temp. CCD −100.2°C Dome Temp./Hum. +4.4°C 68%H Transparency Conditions Clearing Fast 204.

Focus 6.85

Spectr. Temp. ..... Dome Temp./Hum. +3.0°C 71%H

Exp. Mtr.	Seeing	Pl. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
no filter				CASS CCD		30u	6600Å	3/4	focus test	CCD FLAT 415 0 50 1014 4 1	
								5		STRONG LINE ~ 2K SATURATION 400 0 50 1024 4 1	
7.6K	5"	5.1	F8 V					6	Std Lel		5.7K
								7			
								1			
								7			
5.5K	5"-7"	6	F-G					8	cepheid program		5.7K
								9			
								9			
692								10			
								12			
								12			
540	4"-6"	10	F-G					13			
								14			
								1			

205 pg#2 Tues/Wed

Date 1997 Oct 21/22 Observers VnK/Ts

Emulsion Batches:
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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc49480	Comp							FeAr ND3	4s
81	HD 203156	21 1523	+37 4855	20 5646					300
82	Comp							"	4s
83	Comp							"	4s
84	HD187921	19 4724	+27 1200	21 0633					352
85	Comp							"	4s
86	Comp							"	4s
87	HD227463	20 0036	+33 5000	21 1609					1002
88	Comp							"	4s
89	Comp							"	4s
90	HD 196618	20 2936	+46 1600	21 3956					905
91	Comp							"	4s
92	BIAS(4)			22 01					
93/99	FLATS x 7							TUNG ND5	7s

CCD
Spectr. Temp
Focus 6
Spectr. Temp

Exp Mtr

CCD
Spectr. Temp. ...-100.1°C... Dome Temp./Hum. ...12.4°C 74%RH Transparency Conditions ..fair..cloud..... 2.06

Focus ....6.85.....

Spectr. Temp. ..... Dome Temp./Hum. .....

AOM
→ MAX

CD

Exp. Mtr.	Seeing	Pic. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
no filter				CASS	1800 l/m 56.35	30μ	6600Å	14			
5K	5"	6	F-G					15	Rm high priority cepheid		4K
								16			
								16			
2.1K	4.5"	7	F-G					17			
								18			
								18			
740	6"	9	F-G					19		nice Hα nebula ? em	
								21			
								21			
800	5"	9	F-G					22			
								23			
								1			
								2			1/4

207 #3

Emulsion Batches:

Date 1947 Oct 21/22 Observers Vnk/Jn

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC49500	Comp			01 25				RA+ ND3	45
01	HD 44990	06 1949	+07 0825	01 2706					114
02	Comp							"	43
03	BiHS(4)			0135					0

Spectr. Temp
Focus ... 6
Spectr. Temp

Exp. Mtr | S

1.3K

Spectr. Temp. ..... Dome Temp./Hum. ..... Transparency Conditions . Part. Clear 208.

Focus ....6.85.....

Spectr. Temp. ..... Dome Temp./Hum. +23°C 71%H

Comparison Filter	Comparison Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
4	4.3									24			
	114	1.7K								25			1K
	4.3									26			
	0									1			

PG 1 209

Date 1997 Oct 25/26 Observers MKi+/Lu

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CL49504/05	Inboard/outboard							FeAr ND 3	4/7
06	BIAS(4)			17 59					
07	comp							"	4
08	HD 222368	23 34 48	05 05 03	18 02 32					194
09	comp							"	4
10	comp							"	4
11	HD213014	22 23 24	16 46 0.	18 13 17					600
12	comp							"	4
13	comp							"	4
14	HD222994	23 40 36	24 55 00	18 29 21					1000
15	"	"	"	18 46 55					1000
16	comp							"	4
17	BIAS(4)			19 05					0
18	HD222994	"	"	19 06 52					1000
19	"	"	"	19 24 08					1000
20	comp							"	4

Spectr. Temp. −101.3°C Dome Temp./Hum. 5.0°C/58.2 Transparency Conditions ... partly cloudy 210

Focus ... 6.85 ...

Spectr. Temp. ... Dome Temp./Hum. ... 400 0 50 1024 4 1 CCDFMT

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				CASS CCD	1800 l/mm 47.06	306μ	5184	3/4			
								1			
								5			
8K	2"-3"	4.1	F7V					6	std vel		
								7			
								7			
1400		7.7	dG8					8	std vel		
								9			
								9			
744		9.5	F5					10	CB		
758		"	"					11			
								12			
								1			
790		"	"					13			
755		"	"					14			
								15			

PG 211

Date 1997 Oct 25/26 Observers MK+/Lu

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC4952	BIAS(4)			1942					
22	HD222994	23 40 36	24 55 00	19 45 18					1000
23	comp							Fe AT ND3	4
24	HD222994	"	"	20 06 34					1000
25	comp							"	4
26	comp	(2000)						"	4
27	BD+12 511	03 49 28	12 54 44	20 43 09					1070
28	comp							"	4
29	BD+12 511	03 49 28	12 54 44	21 04 38					900
30	"	"	"	21 20 48					900
31	comp							"	4
32	BIAS(4)			21 37					0
33	BD+12 511	"	"	21 39 27					900
34	"	"	"	21 54 54					900
35	comp							"	4

CCD
Spectr. Temp. −100.2 Dome Temp./Hum. 3.5°C/62% Transparency Conditions ... partly clear 212

Focus ... 6.65 clear

Spectr. Temp. ... Dome Temp./Hum. ... 400 0 50 1024 4 1

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				CASS CCD	1800 l/mm	306μ	5784	1			
908		9.5	F5					16			
								17			
892		"	"					18			
								19			
								20			
211	4"	?	?					21	3SE companion Nor <B		
								22			
285		9.5	G0					23	<B		
261		"	"					24			
								25			
								1			
257		"	"					26			
96								27			
								28			

PG#3 213

Date 1997 Oct 25/26 Observers MKi+/Lu

Emulsion Batches:
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Plate No.	Object	R.A. 1900 (2000)	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC49536	BD+12 511	03 49 28	12 54 44	22 12 11					905
37	"	"	"	22 27 52					905
38	Comp							Fe Ar No 3	4
39	BIAS(4)			2244					0
40	BD+12 511	"	"	22 45 43					900
41	" "	"	"	23 01 07					900
42	comp							"	4
43	BD+12 511	"	"	23 17 53					900
44	"	"	"	23 33 17					900
45	comp							"	4
46	BIAS(4)			23 50					0
47/56	flats							Tung No #4	6

CCD
Spectr. Temp.
Focus
Spectr. Temp.

Exp Mtr	Sec
353	
434	
523	2
517	"
545	
521	2.5

CCD

Spectr. Temp. −100.3°C.. Dome Temp./Hum. 2.2°C/66% Transparency Conditions ..... clear 214

Focus 6.85

Spectr. Temp. ..... Dome Temp./Hum. ..... 400 0 50 1024 4 1 ccdfmt

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
353		9.5	GO	CASS CCD	1800 V/mm 47.0	306μ	5184	29	CB		
434		"	"					30			
								51			
								1			
523	2"	"	"					6			
517	"	"	"					7			
								8			
545		"	"					9			
521	2-3	"	"					10			
								11			
								1			
								2			13.5k

PG 4 215

Date 1997 Oct 25/26 Observers Vnk/Lu

Emulsion Batches: .....

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CCD Spectr. Temp. Focus Spectr. Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp Mtr.	Se
cc49557/58	Inboard/outboard							FeAr ND 3	4/7		
59	BIAS(4)			00 14					0		
60	comp							"	4		
61	HD 236429	00 24 24	59 40 00	00 20 57					900	1098	3
62	comp							"	4		
63	comp	(2000)						"	4		
64	UZ Cas	01 12 42	61 12 48	00 40 32					1800	173	
65	comp							"	4		
66	BIAS(4)			01 11					0		
67	comp							"	4		
68	VW Cas	01 05 49	61 45 12	01 14 50					1800	319	
69	comp							"	4		
70	comp							"	4		
71	UX Per	02 13 08	58 04 48	01 49 17					1200	182	2
72	comp							"	4		
73	UX Per	"	"	02 11 20					1800	142	

CCD

Spectr. Temp. −100.3°C Dome Temp./Hum. 0.8°C/68.4% Transparency Conditions Clear 216.

Focus 6.81

Spectr. Temp. ..... Dome Temp./Hum. ..... 400 · 50 1024 41

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				CASS CCD	1800 l/mm 56.35	306μ	6600	3/4			
								1			
								5			
1098	3"	9	F-G					6	CEP		
								7			
								7			
173		11.3	F-G					8			
								9			
								1			
								9			
319		10.7	F-G					10			
								11			
								11			
182	2"	11.5	F-G	← may be (A)				12	not. cap North component,	some clouds in field	
								13			
140		11.5	F-G					14	south component.		

PG 5 217

Date 1997 Oct 25/26 Observers Vnk/Lu

Emulsion Batches:
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CCD
Spectr. Temp.
Focus 6
Spectr. Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp Mtr	Se
CCD9574	comp							FeAr ND3	4		
75	BIAS(4)			0245							
76/82	flats							Tung ND#5	6		
83	comp							FeAr ND3	4		
84	HD62509	07 39 12	28 16 04	030336					488	2000	
85	comp							"	4		
86	BIAS(4)			0313							

CCD
Spectr. Temp. −100, 2° C Dome Temp./Hum. 0.1° C / 70.7 Transparency Conditions cloudy 218

Focus 6.81

Spectr. Temp. ..... Dome Temp./Hum. ..... 400 • 50 1024 4 1 CCDFMT

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				CASS CCD	1800 l/mm 5° 35'	3.0	6600	15			
								1			mat
								2			12,24
								16			
2000		1.14	KOIII					17	std vel	cloudy	
								18			
								2			

Comparison Filter Exp
Hr 3 4
9 15 6
Hr 4
93
45s
4

PG 1219 Tues/Wed

Date 1997 Oct 28/29 Observers [Vys]/Lu/Tn

Emulsion Batches:
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CCD
Spectr. Temp
Focus
Spectr. Temp

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp Mtr	Sc
cc4958 7/88	Inboard/outboard							FeNe ND5	3/2		
89	BIAS(4)			18:52							
90	comp		(1900)					"	4		
91	AC+18 1074-63	22 23 56	18 :25:18	18:58:31					1080	333	1
92	comp							"	4		
93	comp							"	4		
94	HD 216899	22 51 48	16 02 00	19 20 52					512	080	
95	comp							"	4		
96	comp							"	4		
97	AC+3 2781-116	23 03 00	02 47 05	19 36 09					1086	300	
98	comp							"	4		
99	BIAS(4)			19 56					0		
cc4960 0	comp							"	4		
01	HD 1326	00 12 42	43 27 00	20 10 58					850	570	2
02	Comp							"	4		

CCD

Spectr. Temp. −100.3°C. Dome Temp./Hum. 4.4°C / 66.7% Transparency Conditions ... partly cloudy 220

Focus ... 6.86 ...

Spectr. Temp. ... Dome Temp./Hum. +4.0°C / 71.5%H 400 0 50 1024 4 1 CCDFMT

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				CASS CCD	150 l/mm 47.75	306 μ	5300	3/4			
								1	~~Vys~~		
								5			
333	1"-2"	10.7	M0					6	Vys 841		
								7			
								7			
1060		8.66	M2					8	Marcy Std		
								9			
								9			
300		10.9	M0					10	Vys 343	through clouds	
								11			
								1			
								11			
570	2'	8.07	M1½					12	Marcy std	wrong star noted Feb 2000 T.	500
								13			5K

221
Pg #2 Tues/Wed

Date 1997 Oct 28/29 Observers [Vgs]/Tu/Lu

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC#1603	Comp							FeNe NDS	45
04	AC+63 32399	23 02 02	+63 23 21	20 34 34					1111
05	Comp							"	45
06	BIAS(4)			20 55					0
07	Comp							"	4
08	AC+45 130-216	03 02 48	45 21 19	21 04 11					941
09	comp							"	4
10	comp							"	4
11	AC+69 173	00 21 09	69 35 29	21 25 23					1067
12	comp							"	4
13	comp							"	4
14	AC+80 07	00 07 53	80 06 31	21 53 39					2010
15	Comp							"	4
16	BIAS(4)			22 29					0
17	comp							"	4
18	HD 44982	06 19 48	82 21 00	22 36 44					1111

CCD
Spectr. Temp. −100.7 °C Dome Temp./Hum. ..... Transparency Conditions . Part Clear 222

Focus ..... 6.86 .....

Spectr. Temp. ..... Dome Temp./Hum. .....

Exp. Mtr.	Seeing	Pg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
no filter				CASSCCD Tgrating →	1800 l/mm 47.75°	306	5300Å	13			
305	1-2"	10.8	MO					14	Vys 858		
								15			
								1			
								15			
400	2"-3"	10.2	MO					16	Vys 99		
								17			
								7			
350	2"-3"	10.54	MO					18	Vys 357		
								19			
								19			
350	2"-3"	10.7	MO					20	↑		
								21	Vys 354A		
								1			
								21			
700	2"-3"	9.8	G5V					22	AS CVn + SV CAM.		

PG 3 223 Tues/Wed

Date 1997 Oct 28/29 Observers [Vys]/Lu/Tn

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc4961 9	comp							FeNe NO 5	4
20	comp	03 53 19	82 38 57	22 59 22				"	4
21	AC+82 779								360
22	comp							"	4
23	BIAS(4)			23 08					0
24/30	FLATS x 7							TUNG NO 4	5sec

CCP
Spectr. Temp.
Focus.....
Spectr. Temp.

Exp Mtr | Se

60 | 3

CCD
Spectr. Temp. −100.3°c Dome Temp./Hum. 3.1°c / 75.5% Transparency Conditions .. partly clear 224

Focus ..... Solid Cloud Turn

Spectr. Temp. ..... Dome Temp./Hum. ..... 400 0 50 1024 4 1 CCDFMT

Exp. Mtr.	Seeing	Pl. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				CASS CCD	1800 l/mm 47.75	306μ	5300 Å	23			
		~~H.O~~	~~MO~~					23			
60	3"	11.0	MO					24	Vgs 105	52 00 0215 46 00 0106 too weak Clouds - B+ visible I think	
								25			
								1			
								2			13.2K

PG 1 225 Wed / Thurs

Date 1997 Oct 29/30 Observers [Vys] / Tn / Lu

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC496 31/32	Inboard / Outboard							FeNe ND4	3/1
33	BIAS(4)			18 17					
34	Comp							FeNe ND5	45
35	AC+11 1710-70	23 4828	+11 3307	18 34 47					1879
36	Comp							"	45
37	Vys 870A	"	"	190805					1284
38	Comp							"	45
39	BIAS(4)			1931					0
40	comp							"	V
41	AC+7 166-62	120546	+072553	193754					1200
42	comp							"	4
43	comp							"	4
44	BD+23 4575C	22 3241	23 24 52	200341					1870
45	comp							"	4
46	BIAS(4)			2036					0

CCD
Spectr. Temp. −100.3°C ... Dome Temp./Hum. +7.4°C 63%RH Transparency Conditions. mostly clear after sundown

Focus ..... 6.86 .....

Spectr. Temp. ..... Dome Temp./Hum. .....

400 0 50 1024 4 1 CCDFITS MAX 226 ADU

Exp. Mtr.	Seeing	Pic. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				CASSCCD	1800 l/mm 47.75	306u	5300A	3/4	focus test	no need to change setting	
								1			
								5			5K
265	(1-24)	12.2	M0					6	Vys 870B	Faintar south component	
								7			
318	2	11.7	M					8	Vys 870A	Brighter and Northy one	
								9			
								1			
								9			
321	2	10.9	M0					10	Vys 205 AB		
								11			
								11			
200		12.2	K8					12	Vys 893C		
								13			
								1			

PG 2 227 Wed/Tues

Date 1997 Oct 29/30 Observers [Vys] Tn/Lu

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc4647	BD+23 4575AB	22 32 41	23 24 52	01 37 45					480
48	comp							FeNe ND 5	4
49	comp							"	4
50	AC+19 1079-115	23 11 42	19 04 39	20 49 51					1363
51	comp							"	4
52	comp							"	4
53	HD44982	06 19 48	82 21 00	21 19 26					840
54	~~HD~~ comp							"	4
55	BIAS(4)			21 40					0
56	comp							"	4
57	HD216899	22 51 48	16 02 00	21 43 15					480
58	comp							"	4
59	comp							"	4
60	HD3765	00 35 18	39 40 00	21 56 59					370
61	comp							"	4

CCD
Spectr. Temp. −100.2 Dome Temp./Hum. 62°/68.4 Transparency Conditions mostly clear 228
Focus 6.86 a little hazy (smoke)
Spectr. Temp. ..... Dome Temp./Hum. .....

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
363	2"	10.?	MS?	CASS CCD	1800/mm 47.75	306μ	5300	14	Vys 893	ACS	
								15			
								15			
300	2"	11.1	MO					16	Vys 860		
								17			
								17			
800	1"-2"	9.8	GSV					18	SV Cam		
								19			
								19			
								19			
1013	1"	8.66	M2					20	Marcy std		
								21			
								21			
2400	1"	7.36	dKS					22	std vel		
								23			

229 pg#3 Wed / Tues

Date ..1997.Oct.29/30... Observers ..[Vys]...Tw./.Lu./..[Rm] pgm

Emulsion Batches:
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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc49662	comp							FeNe ND5	4s
63	BD-9 40	00 12 34	-09 14 23	22 12 49					1200
64	comp							"	4
65	BIAS(4)			2235					0
66/72	flats							Tung ND4	5 sec
cc49673	BIAS(4)			00 20 22					0
74	Comp							FeNe ND4	4s
75	HD 203156	21 15 23	+37 48 55	00 28 25					676
76	Comp							"	45
77	comp							"	45
78	HD 30282	04 41 06	36 32 00	00 45 14					805
79	Comp							"	45
80	comp							"	45
81	HD 44990	06 19 49	07 08 25	01 03 18					1200
82	comp							"	4
83	BIAS(4)			01 25					0

Spectr. Temp.
Focus 6
Spectr. Temp.

Exp. Mtr	See
336	1
1/70	5
2/20	3
5/60	3

Spectr. Temp. −100,2 °C Dome Temp./Hum. +5·8°C 67·66% Transparency Conditions ... Fine ... 230

Focus ... 6·86 ...

Spectr. Temp. ... Dome Temp./Hum. ... cJ 400 0 50 1024 4< CCDFaTT

Exp. Mtr.	Seeing	Pg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				CASS CCD	1800 l/mm 47.75	306u	5300Å	23			
336	1-2"	10.98	MO					24		some clouds in.	
								25			
								1			
								2		cloudy	13K
				n	1800 l/m 54.53	30u	6400Å	4			
								5	HR8157		8·5K
070	5"	5.8	F-G					6	Rm pgm	through clouds	11K
								7			10K
								7			
2120	3"-6"	8.	F-G					8	Rm pgm	AW Per	
								9			
								9			
1560	3-5"	7.2	F-G					10	Rm	T Mon Through heavy clouds.	
								11			
								1			

231 pg 4

Date 1997 Oct 29/30 Observers [Rm]/Lu/Tn

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc49684	comp							FeAr NO 4	4
85	HD22484	033146	000504	012833					360
86	comp							"	4
87	comp							"	4
88	HD25361	035642	582300	014133					600
89	comp							"	4
90	BIAS(4)			0153					0
91	comp							"	4
92	HD36079	052358	-205021	020106					109
93	comp							"	4
694/700	flats							Tung NO 5	6
701	Comp							FeNe NO5	4B
702	AC+17.449-111	033812	162130	021316					1207
703	Comp							"	4
04	BD+16 502	033812	162130						1350
05	Comp							"	45

CCD
Spectr. Temp. −100.4°C ..... Dome Temp./Hum. +4.5°C. 76.5%H Transparency Conditions Mostly. thinly. cloudy 232

Focus 6.86 .....

Spectr. Temp. ..... Dome Temp./Hum. +4.4°C. 76.7%A

400 0 50 10JA 4 1 CCOFMT

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				CASS CCD	1800 l/mm 54.93	36μ	6400	11			
3430	3"	4.28	F9 IV-V					12	std vel		
								13			
								13			
2750		7.5	F-G					14	Rm pgm		
								15			
								1			
								15			
4.4K	6"	2.84	GSII					16	std vel		
								17			
								2			12K
					1800 l/m 47.75°	30μ	5300	5			
275	3"-4"	11.1	MO					6	Vgs 428B		
								7			
343	2"-4"	10.3	MO					8 9	Vgs 428A	cloud again	

233 pg 45

Date 1.99.7. Oct. 29/30 Observers [illegible]/Lu/Ts

Emulsion Batches:
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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC4970b	comp							FeNe NO5	4
07	HD36395	05 26 18	-03 41 00	03 03 05					700
08	comp							"	4
09	BIAS(4)			03 16					0
10	comp							"	4
11	BD-9 956	04 35 43	-09 23 20	03 20 41					1088
12	Comp							"	4
13	comp							"	4
14	AC+54 2311-89	03 33 54	54 53 54	03 46 06					1500
15	comp							"	4
16	comp							"	4
17	HD44982	06 19 48	82 21 00	04 18 05					900
18	comp							"	4
19	BIAS(4)			04 34					0
20	comp								
	~~AC+53 2320-4~~								

CCD
Spectr. Temp.
Focus ... 6
Spectr. Temp.

Exp. Mtr	Se
743	3"
330	3"
710	2"
12	3"

CCD Spectr. Temp. −100.3°C Dome Temp./Hum. 4.2°C / 77.1% Transparency Conditions Half cloudy 234

Focus 6.86

Spectr. Temp. Dome Temp./Hum.

Comparison Filter	Comparison Exp	Exp. Mtr.	Seeing	Pkg Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	4					CASSCCD	1800 l/mm 47.75°	306u	5300?	9			
	200	1743	3"-4"	7.97	M1					10	Marcy std		
	4									11			
	0									1			
	4			10,30	M0					11			
	1088	330	3"-5"	↓	↓					12	Vys 452 AB		
	4									13			
	4									13			
	150	310	2"-3"	11.0	M0					14	Vys 424		
	4									15			
	4									15			
	400	812	3"-5"	9.8	G5V					16			
	4									17			
	0									1			
										17			

PG 6 235

Date 1997 Oct. 29/30 Observers [Vys]/Lu/Tn

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC49721	AC+53 2250-45	03 49 06	53 16 23	04 41 29					1260
22	comp							Fe Ne ND 5	4
23	comp							"	4
24	AC+51 2576-63	04 50 58	50 47 35	05 10 35					1450
25	comp							"	4
26	comp							"	4
27	HD95735	10 57 54	36 38 00	05 48 25					460
28	comp							"	4
29	BIAS(4)			05 57				Tung	0
30/34	flats							Tung ND 4	5
	(*) CC49730 5 sec								
	CC49731-34 45sec.								

CCD

Spectr. Temp.

Focus

Spectr. Temp.

Exp Mtr.	Se
315	2"
360	2"
2600	

CCD

Spectr. Temp. −100.3°C Dome Temp./Hum. 4.0°C / 73.9% Transparency Conditions Clear 23.6

Focus 6.86

Spectr. Temp. ..... Dome Temp./Hum. 3.3°C / 75.0% 400 0 50 1024 4 1 CCDEMT

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
315	2"-3"	10.5	M0	CASS CCD	1800 l/mm 47.75	306μ	5300	18	Vys226	SAW faint companion to NNW 1.2 arcsec separation	
								19			
								15			
360	2"-3"	10.98	M0					20	Vys457		
								21			
								21			
2600		7.46	M2					22	Murray Std vel		
								23			
								1			
								2			

237 pg#1 Tues/Fri

Date 1997 Oct 30/31 Observers Mn./Tn.

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC4973 5/36	Inb/OUTBOARD							FEAr ND 9	4/6
37	Comp							FEAr ND 4	4s
38	HD199579	20 53 03	+44 32 24	21 00 50					97s
39	HD199579	"		21 03 27					302
40	"	"		21 11 57					233
41	Comp							"	4s
42	BIAS(4)			21 17 14					0
43	Comp							"	4s
44	VES 735	02 20 07 0000	61 07 03	21 28 03					240
45	Comp							"	4s
46	VES 735	"	"	22 10 49					952
47	Comp							"	4s
48	BIAS(4)			22 26					0
49	Comp							"	4s
50	1104 7839	06 35 26	+09 59 18	22 34 48					706
51	Comp							"	4s

CO
Spectr. Temp.
Focus ... 6
Spectr. Temp.

Exp Mtr	Se
not 1/a. 1320V	
1.4M	4
57	
48	
1.21	2
960	
1320 Volts	
3K	8

CCD
Speetr. Temp. −100.2°C ... Dome Temp./Hum. +7.2°C 65.5%H Transparency Conditions ... Part. cloudy 238

Focus .... 6.94 .....

Spectr. Temp. ..... Dome Temp./Hum. +5.0°C 77.1%H

CD 40C 0 50 1034 4 1 CCDFEET

Exp. Mtr.	Seeing	Pig Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
not. like. 1320V				CASSCCD Tgrating →	600G 27.08°	306	5130A	3/4	focus		
								7			
1.4K	4"	5.96	06 V					8	Std Star		3.6K
5.7								9			12K
4.8								10			12K
								11			
								1			
								12			
2427	2-3"	12	0					13	(Sky Cloud)	Δ 2 00 00 24 1 S-00 01 18	
								14			
960								15		very hazy Cut off by cloud	
								16			
								1			
1000 volt			07 V					17		ink std Hitchar.	13K
3K	8"	4.65	~~06~~					18	Std Star	AIR MASS = 6	7.7K
								19			12K

239 pg#2 Thurs/Fri

Date ..1997.Oct.30/31.. Observers ..MN/..TM.....

Emulsion Batches:
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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc4975 52/62	FLATS	x11				02 30E	−10	TUNG ND5	4s
63	BIAS(4)				2257				0
64	Comp							FeAr ND4	4s
65	HD37043	053032	−05 5832	235613					315
66	Comp							"	4s
67	BIAS(4)			00 0439					0
68	HD37043	"	"	00 1212					792
69	Comp							"	4s
70	HD37043	"	"	00 3318					1387
71	Comp							"	4c
72	Comp							"	4c
73	HD28446	042406	+534137	010316					563
74	Comp							"	4s
75	Comp							"	4s
76	HD47839	063526	+09 5918	01 1937					737
77	comp							"	4s

Spectr. Temp.
Focus 6
Spectr. Temp.

Exp Mtr	Se
1320V	
420	8
2k	
6k	6
573	3
4.8k	4

Spectr. Temp. ..... Dome Temp./Hum. +5.0°C 80% Transparency Conditions ... Cloudy ?. clear...

Focus ..... 6.94 .....

Spectr. Temp. ..... Dome Temp./Hum. +5.0°C 90.4% 1 240

Exp. Mtr.	Seeing	Fig. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
1320V				CASS CCD	600c	3"	5130A	2			12.5K
								1			
								20			
420	8"	2.77	09 III					21	stumbled	(MK)	
								22			
								1			
2K								23			4K
								24			
6K	6"							25		Bulk near end of exposure	12.4K
								26			
								26			
513	3"-5"	5.78	B0 III					27	1 Cam	SE and brighter arc	
								28			
								28			
4.8K	4"-6"	4.65	07 V					29			8.8K
								30			

p 93

241

Date 1997 Oct 30/31 Observers Mn / Tg

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc4978	B/HS(4)			01 33 34					
79	Comp							for ND4	4s
80	HD46150	06 26 36	05 00 00	01 38 40					135s
81	Comp							"	4s

Spectr. Temp.

Focus.....

Spectr. Temp.

Exp. Mtr.	Se
320V	
380	4

Spectr. Temp. ..... Dome Temp./Hum. ..... Transparency Conditions .Too Cloudy 242

Focus .....

Spectr. Temp. 700.2°C Dome Temp./Hum. 54°C 91.7%A

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
1320V					600C 2708	306	5130A	1			
								5			
580	~~4" 0~~	673	05V ~~0~~					6	std	but weak	
								7			

PG #1

243

Date 1997 Oct 31/Nov. 1 Observers Vnk/Lu

Emulsion Batches:

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LCD

Spectr. Temp.

Focus.....

Spectr. Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp Mtr	Se
CC49782/83	Inboard/outboard							F_2A_c ND3	4/6		
84	BIAS(4)			01 02							
85/91	flats							Tung ND5	7		

CCD
Spectr. Temp. −101.3°C ..... Dome Temp./Hum. 9.3°C/92.6 Transparency Conditions ..... cloudy 244

Focus ..... 6.78 .....

Spectr. Temp. ..... Dome Temp./Hum. .....

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				CABS CCD	1800/mm 56.35	306μ	6600	3/4			
								1			
								2			12.9K

pg#1 Sun/Mon

245

Date 1997 Nov 2/3 Observers [Mn]/Tn

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC497 92/93	Inboard/OutBoard Hyades							Fear ND4	4/6
94	BIAS(4)			19 50					0
95	Comp							"	4
96	HD 213420	22 2610	+42 3639	200349					19
97	"	"	"	200724					23
98	Comp							"	4
99	Comp							"	4s
CC49800	VES735	2000 022007	+610703	202152					270
01	Comp							"	4s
02	BIAS(4)			2109					0
03	VES735	"	"	212152					2965
04	Comp							"	4
05	VES735	"	"	220224					216
06	Comp							"	4
07	BIAS(4)			2240				TUPG ND5	0 45
08/16	FLATS x 9								

CCD
Spectr. Temp. 99.5°C ..... Dome Temp./Hum. +8.1°C 65.5%H Transparency Conditions ..Fust Clearing, tha hazy

Focus ... 6.93 .....

Spectr. Temp. ..... Dome Temp./Hum. +5.4°C 70.5%H

246

CCD 410 0 50 1021 4' CCDFAST

Exp. Mtr.	Seeing	Fig. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
1320V				CCD Spectrograph	0600C 27.08	30u	5130Å	1/2	focus test	~ PMAx 400	
								1			
								3	Just the Normalization star		
5K		4.51	B2 IV					4	↓	↓	1.1K
13K								5			5.9K
								6			11.5K
								7			
2270	3-5" ~12		0					8	Mr pgm	Yes, Field positioned slightly hazy here	
								9			
								1			
2400	2-5"							10			
								11			
1.7K								12		Cloud	
								13			
								1/2			

pg 2

247

Date 1997 Nov 2/3. Observers [mn] J.L.S.

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc49817	Comp							FeA NO4	4s
18	HD 20418	031200	+494347	225144					45
19	Comp [For cc49820 only]			Lost the intended for		HD 20418		n	4c
20	HD ~~46223~~ 41	06 27.1	+0456	230739				v	90s
21	Comp							n	4s
22	HP 46223	062700	+045300	231111				-	406
23	Comp							n	4
24	BIAS (4)			2320					0
25	HD46223	062700	+045300	232214					1156
26	Comp							n	4s
27	Comp							n	4s
28	H46150	062636	+050000	004717					1469
29	Comp							n	4s
30	Comp							n	4
31	HD 214680	~~223746~~ (H150)	+383147	012141					109
32	Comp							n	4

Spectr. Temp. ..... Dome Temp./Hum. ..... Transparency Conditions ..... cloudy 248

Focus ..... 6.93°C .....

Spectr. Temp. ..... Dome Temp./Hum. .....

Exp. Mtr.	Seeing	Pos. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
					600C 27.08	30u	5130Å	14			10k
14k								15	Telluric Std.	cloudy	28k
								16			
		5.84	10 III					17	Accidental exposure.	H046223 inserted?	
								18			
3k	5"	7.28	04 V					19	Spectrum Std.		500
								20			
								1			
9k	4"	7.28	04 V					21		cloudy [+00 00 06 -00 00 30]	700
								22			
								22			
23k	5"	6.73	05 V					23		some cloud, ΔA +00 00 12 ΔS -00 00 33 [very busy field]	
								24			
								24		wrong star maybe.	
30k		4.87	09 V					25			46k
								26			

249 Pg#3

Date 1997 Mar 2/3 Observers Mn / Tn

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC49833	BIAS(4)			0125					0
34	Comp							FeAr ND4	4s
35	VES 735	022007 (2000)	+61 0703	01 3331					
36	Comp							"	4s
37	Comp	After topup						"	4s
38	VES 735	"	"	021618					240
39	Comp							"	4s
40	BIAS (4)			0258					0
41	Comp							"	4s
42	HP46149	062636	+05 0600	031405					10A
43	Comp							"	4s
44	Comp							"	4s
45	HD 47839	063536	+9 5918	033554					
46	Comp							"	4s
47	HD 47839	"	"	034131					117
48	Comp								4

CCD Spectr. Temp. -100.2°C Dome Temp./Hum. ..... Transparency Conditions .. Part Clear 250

Focus ..... 6.93 .....

Spectr. Temp. ..... Dome Temp./Hum. 4.04.0°C. 78&H

Comparison Filter	Exp	Exp. Mtr.	Seeing	Pix/Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	0							30u	5/30H	1			
4 4	4									27			
		1300	3"	12	0					28		Cloud at end	
	4									29			
	4									3			
	24	2K	3"-4"	12	0					4		Clear again	
	4									5			
	0									1			
	4									5			
	12	24.4K	5"	7.5908	V					6			
	4									7			
	4									7			
		25K		4.65	07	V				13	mk	std Anchor.	6K
	4									14			
	11	50K								15			6K
	4									16			

251 PG#4

Date ...1997 Nov 2/3.. Observers ....MJ/JT.....

Emulsion Batches:
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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC4984	Comp							FOA ND4	4s
50	HD46149	6 26 3/6	+5 06 00	035237					3058
51	Comp							"	4s
52	B/HS(4)			0451					0

Spectr. Temp.
Focus.....6
Spectr. Temp.

Hyp Mtr. | Se

43K | 4

Spectr. Temp. ..... Dome Temp./Hum. ..... Transparency Conditions ... PART. Cloudy 257

Focus ..... 693 .....

Spectr. Temp. ..... Dome Temp./Hum. +10°C 78.2%H

Exp. Mtr.	Seeing	Pig Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
					600C	306u	5130Å	16			
48K	4"	7908V						17			12K
								18			
								1			

253 PgII Mon/Tues

Date 1.9.97. Nov 3/4 Observers L.u. / T.a.

Emulsion Batches:
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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc498 53/54	Inboard / outboard Hartmann							RAF ND 3	4/7
58	BIHS(4) written and done after HD44982				21:34				0
55	Comp							RAF ND3	45
56	HD44982	06 19 48	+82 21 00	21 19 08					820
57	Comp							"	45
59	comp							"	45
60	HD44982	"	"	22 09 45					1080
61	comp							"	4
62	HD44982	"	"	22 30 12					1160
63	Comp							"	4
64	HD44982	"	"	22 53 51					1169
65	Comp							"	4
66	BIHS(4)			23 14					0
67	HD44982	"	"	23:15:38					1200
68	comp							"	4

CCD
Spectr. Temp.
Focus 6
Spectr. Temp.

Exp Mtr.	Se
1000V	
120:	3
873	3
805	
511	

CCD Spectr. Temp. −100.2 °C Dome Temp./Hum. +5.7°C 62%H Transparency Conditions . PART. CLOUR 254

Focus 6.85

Spectr. Temp. . . . . Dome Temp./Hum. . . . . 400 0 50 1024 4 1 CCDFLAT

Exp. Mtr.	Seeing	Pg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
1000V				CASSCCD Tgrating	1800l/mm 47.06	306u	5784Å	3/4	focus test	~1 MAX ADU	
								1			
								5			2.4K
320:	3"-5"	9.8	G5V					6		Through clouds	
								7			
								8			
873	3"-5"	"	"					9			
								10			
805								11			
								13			
811								14			
								14			
								1			
424								15			
								16			

255 Pg #2 Mon / Tues

Date 1997 Nov 3/4 Observers Lu / Tu

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc49869	Comp							FeA NO3	4s
70	HD22484	033146	+000504	234308					48=
71	comp							"	4
72	BIAS(4)			2352					0
73	Comp							"	4s
74	HD62509	073912	+281604	235700					166
75	Comp							"	4s
76/82	flats							Tung NO #4	6
83	BIAS(4)			0004					0

Spectr. Temp.
Focus 6
Spectr. Temp.

Exp Mtr	Se
1000V	
1306	
86K	

Spectr. Temp. ..... Dome Temp./Hum. +42°C 69.5% Transparency Conditions ..... Cloudy 256

Focus ..... 6.85 .....

Spectr. Temp. ..... Dome Temp./Hum. .....

Exp. Mtr.	Seeing	Pix. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
1000V				CASSCCD	1800/in 47.06	306u	5184	16			
1306		4.28	F9 IV-V					17	std vel		
								18			
								1			
								18			
8.6K		1.14	K					19	std vel		~~B~~ K
								20			
								2			
								1			

PG 1 Tues/Wed

257 1997 Nov. 4/5

Date ..... Observers [Vys] Lu/Tn

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc4988/es	Inboard/outboard							FeNe ND5	4/2
86	BIAS(4)			19 48					
87	Comp							FeNe ND5	4s
88	AC+7 166-62	22 05 46	07 24 53	19 58 54					1300
89	comp							"	4s
90	comp							"	4s
91	AC+3 2781-116	23 03 00	02 47 05	20 24 56					768
92	comp							"	4s
93	comp							"	4s
94	HD216899	22 51 48	16 02 00	20 44 13					800
95	comp							"	4s
96	Comp							"	4s
97	AC+19 1079-715	23 11 42	+19 04 39	21 03 09					1532
98	Comp							"	4s
99	BIAS(4)			21 30					0

CCD

Spectr. Temp.

Focus ..... 6"

Spectr. Temp.

Exp Mtr.	Sec
1200V	
303	2"
~200	2"
1200	4
355	2"

CCD
Spectr. Temp. −100.2°C Dome Temp./Hum. +5.7°C 60.9% Transparency Conditions Part clear 258

Focus 6.88

Spectr. Temp. ..... Dome Temp./Hum. .....

~ 10.14X

Exp. Mtr.	Seeing	Pix Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
1000V				CASS CCD Tgrating →	1800l/m 47.75°	306	5300Å	3/4			
								1			
								5			6K
303	2"-3"	10.9	MO					6	Vys 205 AB	~ 20 above background	
								7			
								8			
~200	2"-4"	10.9	MO					9	Vys 343	through clouds ~ 20 HBOL brighter.	
								10		Looks usable though	
	..	8.66	MZ					11	Mercury std Vys 854		
1200	4"-2" ↓	↓	d					12			
								13			7K
								14			
305	2"-3"	11.1	MO					14	Vys 860		
								15			
								1			

259pg#2 Tues/Wed

Date 1997 Nov 4/5 Observers [Vys] Lu/Tu

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC49900	Comp							FeNe ND 5	1s
01	AC158 20564	03 08 25	57 48 08	21 36 06					1067
02	Comp								1s
03/09	FLATS x 7							TUNG ND 4	5s
10	BIAS(4)			22 01					0

200 Spectr. Temp.

Focus 6

Spectr. Temp.

Exp Mir | Sec

.000 V

200

CCD Spectr. Temp. −100.3 °C Dome Temp./Hum. +3.4°C 65%H Transparency Conditions PART CLOUR 240

Focus 6.88

Spectr. Temp. ..... Dome Temp./Hum. .....

Comparison Filter	Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
		1000 V								15			
	1m7	200	3-5"	10.0	MO					16	Vys 46 B?	usually well separated NOATH and slightly fainter and some cloud	OK
										17			
										18			13K
										1			

PG 1

261 1997 Nov 6/7 Mn/Lu

Date ..... Observers .....

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc4991 1/12	Inboard/outboard							FeAr ND4	4/6
13	BIAS(4)			1918					0
14/22	flats							Tung ND5	4
23	comp							FeAr ND4	4
24	HD199579	20 53 03	44 32 24	20 58 02					724
25	comp							"	4
26	BIAS(4)			21 12					
27	comp							"	4
28	HD193443	20 15 12	37 57 00	21 20 24					2030
29	comp							"	4
30	~~comp~~							~~"~~	~~4~~
~	HD21~~4680~~	22 ~~34 46~~	~~38 31 47~~	~~22 11 17~~					
30	BIAS(4)			2226					0
31	BIAS(4)			0037					0
32	comp	(2000)						"	4
33	VES735	02 20 07	61 07 03	00 39 28					2400

CCD
Spectr. Temp. −100.3°C Dome Temp./Hum. 6.6°C/7% Transparency Conditions cloudy 262

Focus 7.00

Spectr. Temp. ..... Dome Temp./Hum. ..... 405 0 50 1024 4 1 CCDFMT

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				cass CCD	600(1)/mm 27.07.	300/mm	5130	3/4			
								1			
								5			11.8K
								6			
48K	5"	5.96	06V					7	std		
								8			
								1			
								8			
50K	5"-6"	7.25	09III					9	std.		
								10			
								~~12~~		cloud	
	4"	4.87	09.5V					~~14~~			
								1			
								1			
								12			
2240	4"	12 ↓	0 ↓					13			

PG 2

263

Date 1997 Nov. 6/7 Observers Mn/Lu

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC49934	Comp							FEAT ND 4	4s
35	VES735	02 20 07	61 07 03	01 22 45					1168
36	comp							"	4
37	BIAS(4)			01 44					0
38	comp							"	4
39	HD34078	05 09 42	34 11 52	01 54 55					382
40	comp							"	4
41	comp							"	4
42	VES735	02 20 07	61 07 03	02 09 00					1946
43	comp							"	4
44	BIAS(4)			0243					0

Spectr. Temp. −100.3°C Dome Temp./Hum. 5.5°C / 75.0 % Transparency Conditions Partly clear 264

Focus 7.00

Spectr. Temp. ..... Dome Temp./Hum. .....

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
								14			
1100:	3-4"	12	0					15			
								16			
								1			
								16			
50K		5.96	09.5V					17			
								18			
								18			
1800	2"-3"	12	0					19			
								20			
								1			

PG1 Fri/Sat.

265 Date 1997 Nov. 7/8 Observers MKit / Cu

Emulsion Batches:
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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc4994 5/6	Inboard/outboard							EoAr ND3	4/7
47	BIAS(4)			18 16					
48	comp							"	4
49	HD222994	23 40 36	24 55 00	18 27 32					900
50	HD222994	"	"	18 43 36					900
51	comp							"	4
52	HD222994	"	"	19 00 43					900
53	"	"	"	19 16 41					1000
54	comp							"	4
55	BIAS(4)			19 35					0
56	HD222994	"	"	19 35 55					899
57	"	"	"	19 51 52					900
58	comp							"	4
	HD222994	"	"						
59	comp							"	4

CCD
Spectr. Temp. −100.3°C Dome Temp./Hum. 7.°/63.9 Transparency Conditions clear 266

Focus 6.58

Spectr. Temp. ..... Dome Temp./Hum. ..... 400 0 50 1524 4 1 CCDFMT

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				CASS CCD	1800 l/mm 47.06	306μ	5184	3/4			
								1			
								5			
1127	2"-3"	9.5	F5					6	W UMa	start	
1036	"	"	"					7	W UMa	start	
								8			
682		"	"					9		through clouds	
647		"	"					10			
								11			
								1			
1063		"	"					12			
899								13			
								14			
								~~15~~			
								15			

PG 2

267 1997 Nov 7/8 MKi+/Lu

Date ..... Observers .....

Emulsion Batches:

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CCD Spectr. Temp. ..... Focus ..... Spectr. Temp. .....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp Mtr	Se
CL49960	HD222368	23 34 48	05 05 03	20 25 45					293	9K	
61	comp							FEAr ND3	4		
62	BIAS(4)			20 32					0		
63	comp							"	4		
64	HD222994	23 40 36	24 55 00	20 38 15					900	862	2"
65	"	"	"	20 53 42					900	277	
66	comp							"	4		
67	HD222994	"	"	21 10 21					1000	872	
68	"	"	"	21 27 34					900	739	
69	comp							"	4		
70	BIAS(4)			21 44					0		
71	HD222994	"	"	21 45 31					900	718	2"
72	"	"	"	22 00 56					900	783	
73	comp							"	4		
74	HD222994	"	"	22 17 49					900	675	
75	"	"	"	22 33 15					900	650	

CCD

Spectr. Temp. −100.3°C ... Dome Temp./Hum. 6.3°C/64.5% Transparency Conditions .... Partly clear 268

Focus ..... 6.88 .....

Spectr. Temp. ..... Dome Temp./Hum. .....

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
9K		4.13	F7V	CASS CCD	1800/mm 47.06	306μ	5184	16	std vel		
								17			
								1			
		~~8.5~~						17			
862	2"-3"	9.5	F5V					18			
777		"	"					19			
								20			
872		"	"					21			
739		"	"					22			
								23			
								1			
758	2"-3"	"	"					24			
783		"	"					25			
								26			
875		"	"					27			
850		"	"					28			

Pg 3

269 1997 Nov. 7/8 MKo+ / Lu

Date ..... Observers .....

Emulsion Batches:

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CCD Spectr. Temp. .....

Focus .....

Spectr. Temp. .....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp Mtr.	Se
cc4997b	comp							FeAr ND3	4		
77	BIAS(4)			22 49					0		
78	HD222994	23 40 36	24 55 00	22 50 51					900	860	3
79	"	"	"	23 06 18					900	870	
80	comp							"	4		
81	HD222994	"	"	23 23 53					908	813	4
82	"	"	"	23 39 25					1000	762	
83	comp							"	4		
84	BIAS(4)			23 57					0		
85	HD222994	"	"	23 58 27					900	757	
86	HD222994	"	"	00 14 24					900	773	
87	comp			00 30 23				FeAr ND3	4		
88	HD 222994			00 32 36					1200	726	4
89	comp							"	4		
90	BIAS(4)			00 54					0		

CCD
Spectr. Temp. −100.3°C ..... Dome Temp./Hum. 4.8°C / 68.4% Transparency Conditions ..... clear 270

Focus ..... 6.88 .....

Spectr. Temp. ..... Dome Temp./Hum. .....

Comparison Filter	Comparison Exp	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	4					CASS CCD	1800 l/mm 47.66	306 μ	5184	29			
	0									1			
	900	860	3"-4"	9.5	F5					6			
	900	870		4	"					7		S/N ~ 70/1	
	4									8			
	908	813	4"-5"	9.5	F5					9			
	1000	762		"	"					10			
	4									11			
	0									1			
	900	757		9.5	F5					12			
	900	773		9.5	F5					13			
	4									14			
	1200	326	4"-6"	"	"					15		through clouds	
	4									16			
	0									1			

PG 4

271 1997 Nov. 7/8 Date ..... Observers MKc+/Lu .....

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp Mtr	Sec
CC49991	HD222994	23 40 36	24 55 00	00 56 34					1271	250	4"
92	comp							FeAr ND3	4		
93	comp							"	4		
94	HD32963	05 01 48	26 12 00	01 26 24					720	490	
95	Comp							"	4		
96	BIAS(4)			01 40					0		
97	comp							"	4		
98	BD+12 511	03 49 28	2000 Th 125444	01 45 19					901	356	4"
99	"	"	"	02 00 50					915	427	
CC 50000	comp			02 17 19				"	4		
01	BD +12511	"	"	02 19 57					900	376	
02	BD +12511	"	"	02 35 55					904	350	
03	comp							1	4		
04	Bias (4)			02:52:05					0		
05	BD +12511			02:54:10					680		
06	comp							"	4		

CCD
Spectr. Temp.
Focus .....
Spectr. Temp.

CCD

Spectr. Temp. −100.4°C Dome Temp./Hum. 4.1°C / 70.0% Transparency Conditions partly clear 272

Focus 6.88

Spectr. Temp. ..... Dome Temp./Hum. .....

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
250	4"-5"	9.5	F5	CASS CCD	1800/mm 47.06	306μ	5184	17	W UMa star	through clouds	
								17			
								17			
1190		7.72	G2V					18	Std Vel		
								18			
								1			
								19			
356	4"-5"	9.5	G0					20			
427		"	"					21			
								22			
396								23			
350								24			
								25			
								1			
~~346~~								26		low counts	
								27			

PG 5

273 Date 1997 Nov. 7/8 Observers MKC+/LL

Emulsion Batches:

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CCD

Spectr. Temp.

Focus.....

Spectr. Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc5000 7	BIAS(4)			03 03 34					
08/17	flats							Tung ND 4	6

Exp Mtr | Sec

CCD
Spectr. Temp. −100.4°C ..... Dome Temp./Hum. 3.4°C/73% Transparency Conditions ..... cloudy 274

Focus ..... 6.88 .....

Spectr. Temp. ..... Dome Temp./Hum. .....

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				CASS CCD	1800 l/mm 47.26	506μ	5184	1			
								5			12,6

Pg# 1 +Chris Gravel 3rd Year 325 course. Emulsion Batches:

275 SAT/SUN

Date 1997 Nov. 8/9 Observers MKit/Tn

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp. Mtr	See
CC500 18/19	Inboard / OutBoard Hartmann							FeAr #03	4/7	1000'	
20	BIAS(4)			1744							
21	Comp							"	4s		
22	HD199081	20 49 43	+44 00 31	174637					57	27K	2
23	Comp							"	4s		
24	Comp							"	4s		
25	HD222994	23 40 36	+24 55 00	175518					910	535	1
26	Comp							"	4s		
27	Comp							"	4s		
28	HD187691	19 46 14	+10 09 55	181642					193	6K	2
29	Comp							"	4s		
30	Comp							"	4s		
31	HD222994	23 40 36	24 55 00	182711					93	670	2
32	"	"	"	184308					902	620	
33	Comp			23 59				"	4s		
	~~BIAS(4)~~								0		

CCD Spectr. Temp. Focus 6.2 Spectr. Temp.

CCD
Spectr. Temp. −100.3 °C Dome Temp./Hum. +8.0°C 60%H Transparency Conditions mostly clear 276

Focus 6.88

Spectr. Temp. Dome Temp./Hum. CD → MAX ADU

Exp. Mtr.	Seeing	Fig. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
1000V				CASS CCD	1800h 4706	30μ	5184Å	3/4	focus test	(underexposed)	
								1			
								5			
2.7K	2"	4.78	B5V					6	normalization star		2.3K
								7			4K
								7			
535	1-2"	9.5	F5					8	WUMa star	some cloud	400
								9			
								9			
6K	2"	5.11	F8V					10	std'd		5.2K
								10			
								11			
520	2"	9.5	F5					12	WUMa star.		
620								~~13~~			
								14			
								7			

277 pg #2 SAT/Sun

Date 1997 Nov 8/9 Observers MKit/Ten

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CCSOO 34	HD222994	234036	+245500	19 0122	edit✓				912
35	HD222994	"	"	19 1917					909
36	Comp							FeHr ND3	4s
37	BIAS(4)			1936					0
38	HD222994	"	"	193744					900
39	"	✓	"	195336					900
40	Comp							FeHr ND3	4s
41	HD222994	"	"	201046					900
42	"	"	"	202607					908
43	Comp							"	4s
44	BIAS(4)			2042					
45	Comp							"	4s
46	HD222368	23 3418	+050503	204754					94
47	Comp							"	4s
48	Comp							"	4s

Spectr. Temp. 6
Focus
Spectr. Temp.

Exp. Mtr.	See
655	2
860?	
57	
44	
1K	
50	
OK	

Spectr. Temp. ..... Dome Temp./Hum. +6.7°C 66%H Transparency Conditions Part Cloudy 278

Focus 6.88

Spectr. Temp. ..... Dome Temp./Hum. .....

Exp. Mtr.	Seeing	Proj. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
655	2"3"	9.5	F5	(HSCCD)	1800h	3"	5187	~~15~~		Weather in 13c?	
~~860?~~								16			~600
								17			
								1			
857								18			
914								19			
								20			
1K								21			
950								22			
								23			
								1			
								24			
6K		~~9.~~13	F7	V				25	Std vel		4.5K
								~~26~~			
								26			

279 Pg#3 SAT/SUN

Date 1.9.97 Nov. 8/9 Observers Mkt / Tm

Emulsion Batches:

Plate No.	Object	R.A. ~~1900~~ 2000	Declination ~~1900~~ 2000	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC50049	BD+12 511	034928	+125944	21 0306					90Z
CC50050	"	"	"	21 1925					90Z
51	Comp							FeAr ND3	4s
52	BD +12 511	034928	+12 54 44	21 38 26					900s
53	"	"	"	21 54 12					900s
54	Comp								4s
55	BD+12 511	03 49 28	12 54 44	22 12 36					899
56	"	"	"	22 28 52					900
57	Comp								4s
58	BIAS (4)			22 46					0
59	BD+12 511	03 49 28	12 54 44	22:48 44					899
60	"	"	"	23:04:56					900
61	Comp								4s
62	BD +12 511	03 49 28	12 54 44	23:22:08					900
63	"	"	"	23 37:46					900

Spectr. Temp.
Focus 6
Spectr. Temp.

Exp. Mtr.	Sec
1000	
578.	4
2885	34
448	
387	
377	
281	
373	
349	
2	
468	

Spectr. Temp. ..... Dome Temp./Hum. +6.0°C 70% Transparency Conditions 280

Focus .....6.88.....

Spectr. Temp. ..... Dome Temp./Hum. .....

Exp. Mtr.	Seeing	~~Pk~~ Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
10000 578.	4"	9.5	GO	CASSCCD	1800l/m 4706	306u	5184Å	27			
~~518~~534								28			
								29			
498								30			
437								5			
								6			
377								7			
281								8			
								9			
								1			
273								10			
343								11			
								12			
412								13			
468								14			

281
page 4

Emulsion Batches:
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Date ....1997..Nov.8/9... Observers ...Aki..+./In.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC50064	comp							Fe-Ar	4s
CC50065	BD+12 511	03:49:28	12:54:44	23:55:31					900s
CC50066	"	"	"	00:11:22					900
67	comp							Fe-Ar	4s
68	bias			00:29:09					0
69	BD+12 511	03:49:28	12:54:44	00:30:41					900
70	"	"	"	00:46:59					900
71	comp							Fe-Ar	4s
72	BD+12 511	03:49:28	12:54:44	01:04:39					900
73	"	"	"	01:20:30					900
74	comp							Fe-Ar	4s
75	bias			01:37:30					
76	BD+12 511	03:49:28	12:54:44	01:39:39					900s
77	"	"	"	01:55:22					900s
78	comp							Fe-Ar	4s

SDT
Spectr. Temp.
Focus.....
Spectr. Temp.

Exp. Mtr.	Sec
	4
322	
464	
307	
308	
291	3
399	
415	
432	

CCDT
Spectr. Temp. -100.0°C ..... Dome Temp./Hum. 4.9°C/70% Transparency Conditions ..Part. Cloudy 282

Focus ..... 6.88 .....

Spectr. Temp. ..... Dome Temp./Hum. .....

Exp. Mtr.	Seeing	~~Mag.~~ Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~ cs	P.H.	Program	Remarks	Quality
	~4"	9.5	GO	CHSS CCD	1800l/m 97.06	300μ	5184 Å	15			
322								16		~~bad~~ clouded in.	
464								17			
								18			
								1			
507								19			
308								20		clouds	
								21			
291	3-5"							22			
399								23			
								24			
								1			
415								25			
382								26			
								27			

283
pg #5

Date 1997 Nov 8/9 Observers MK/TA

Emulsion Batches:

Spectr. Temp.
Focus
Spectr. Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp. Mtr
cc50079	BD+12 511	03:49:28	12 54 44	02:13:12					900	312
cc50080	"	"	"	02:30:25					900	~~352~~
cc50081	comp			~~02:30:25~~					4	
cc50082	bias(4)			02:47:57						
~~cc50083~~	~~BD+12 511 Comp~~	"	"	~~02:50:57~~						
CG811 63/66	HD 36408	05 24 24	+16 59					4x	67	
67/68	"							2x	133	
cc50083	Comp							FeAr NO3	4s	
cc50084	BD+12 511	03 49 28	+12 54 44	03 22 10					900	183
cc50085	"	"	"	03:38:17					900	359
cc50086	comp								4	
cc50087	~~BD+12 511~~ bias			03:55:29					~~900~~	
cc50088	BD+12 511	"	"	03:59:52					899	554
cc50089	"	"	"	04:15:41					900	737
cc50090	comp								4	

Spectr. Temp. ..... Dome Temp./Hum. 4.4°C / 72.3% Transparency Conditions . increasing Cloud 284

Focus ..... 6·88 .....

Spectr. Temp. ..... Dome Temp./Hum. .....

Exp. Mtr.	Seeing	~~Mg.~~ Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~ cl	P.H.	Program	Remarks	Quality
312	~4"	9.5	G0	CHSS CCD	1800l/m 47.06	306μ	5184i	28			
~~312~~ 302								29		chip a bit warm	
								30			
** Note! This BIAS much affected By chip warming								1		CCD warming ~ −60°C	
								67	Topup done		
	3·4"	5·5	B9	Above	306 a	slit			Seeing Test scale flip. Poor seeing however		
								7		Topup due by 0315	
193	5·8"	9.5	G0					8			
259								9			
								10			
~~254~~								11			
254								11			
327								12			
								13			

285 pg #6

Date ..... 1997 Nov 8/9 Observers ... mkt / Tm ...

Emulsion Batches:
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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC50091	comp							Feltr ND3	4
CC50092	Moo HD 32963	5:01:48	26:12.00	04:38:06					688
93	Comp								4
94	BIAS (4)			0451					0
95/103	FLATS x 9							Tung ND4	6

Spectr. Temp.
Focus .....
Spectr. Temp.

Exp Mtr.	Se
1.4k	
0.7k	

Spectr. Temp. ..... Dome Temp./Hum. 2.9°C / 77.1 % Transparency Conditions ..Incr. clouds..... 286

Focus 6.88

Spectr. Temp. ..... Dome Temp./Hum. 2.6°C / 77.9% cλ

Comparison Filter	Comparison Exp	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
	4									14			
	68	1.9K	~4.5"	9.5	G2IV	CHSSCCD	1800l/mm 47.06	300μ	5184 Å	15	Std Vel		
	4	~~1.9K~~								16			
	0									1			
96	6									2			12.7K
4													

287 pg #1

SUN/moon

Date 1997 Nov. 9/10 Observers Mo./J.T.

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CCD 04/05	INBOARD	/ OUT BOARD						REAr NO4	4/7
106	BIAS(4)			17 40					
107	Comp							"	4s
108	HD 193327	20 14 34	+40 25 13	17 40 35					155
109	Comp							"	4s
110	Comp							"	4s
111	VES 735	02 20 07 (2000)	+61 07 03	17 53 31					240
112	Comp							"	4s
113/116	FLATS	x 4						TUNG NO5	4s
117	BIAS(4)			18 38					0
118	Comp							REAr NO4	4s
119	VES 735	02 20 07 (2000)	+61 07 03	18 46 59					240
120	Comp							"	4s
121	VES 735	"	"	19 30 57					2400
122	Comp							"	4s
123	BIAS(4)			20 12					0

CCD — °C Dome Temp./Hum. +5.5°C 66% Transparency Conditions Fine 288

Focus 7.00

Spectr. Temp. ..... Dome Temp./Hum. ..... CA 445 0 50 1024 41 CCDEMI

Exp. Mtr.	Seeing	Pr. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
no filter				CASS CCD	0600C 27.07	306μ	* 5152	3/4	* note -	Previous CA ~5130 were very Rough	
							± 5Å @ Row 512	1		Approximations of centers tweaked.	
1000V								5			13K
3.2K		5.84	09V					6	NORMALIZATION and Spectrum Std.		7.4K
								7			
1320V								8			
2.8K	2"-3"	12	0					9		~0 ADU @ 5800 Sky	
								10			
								2			
								1			
					27.03		~5130Å	11	WAVELength change needed 67K		
2.3K	4"-6"	12	0					12	to avoid Red Sky line.	65 ADU Sky	
								13			
2.1K								14		~50 ADU above Sky	
								15			
								1			

289 pg #3 Sun/Mon

Date ..1997..Nov.9/10... Observers ..Mn./..Jn.....

Emulsion Batches:
.....
.....
.....

Plate No.	Object	R.A. ~~1900~~ 2000	Declination ~~1900~~ 2000	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC5024	VES 735	02 2007	+61 0703	201559					2400
25	Comp							REF NO 4	4s
26	VES 735	"	"	205816					2400
27	Comp							"	4s
28	BIAS(4)			2140					0
29	VES 735	"	"	214206					2400
30	Comp							"	4s
31	VES 735	"	"	222604					2400
32	Comp							"	4s
33	BIAS(4)			2307					0
34	VES 735	"	"	230429					2400
35	Comp							"	4s
36	VES 735	"	"	235201					2400
37	Comp								4
38	BIAS(4)			0033					0

Spectr. Temp. ..... Dome Temp./Hum. +33° 70.2% Transparency Conditions .. Fine - increasing 290 Haze

Focus ..... 7.00 .....

Spectr. Temp. ..... Dome Temp./Hum. ..... CO 445 050 1024 4 1 CCDFWT

Comparison Filter	Comparison Exp	Exp. Mtr. 1320V	Seeing	Pix Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
290		2.1K	5"-6"	1.28	0	CASSCCD	0600A 2703	300u	5130A	16		very poor seeing	
4	45									17			
340		2.1K								18			
	43									19			
	0									1			
350		2.1	4"-6"	1.18	0					20			
	45									21			11K
290		2.1 10	3"							22			
	43									23			
	0									1			
290		2.1 8	3"							24			
	43									25			
340		2.0K	3"							26		~100 ADU Above Stg	
	44									27			
	18									1			

291 pg#3 Sun/Mon

Emulsion Batches:

Date 1997 Nov 9/10 Observers Mn./Th.

Plate No.	Object	R.A. ~~1900~~ 2000	Declination ~~1900~~ 2000	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp
cc50139	VES 735	022007	+610703	003423					240
140	Comp							FeAr ND4	4s
141	VES 735	"	"	011608					1749
142	Comp							"	4s
143	BiHS(4)			0147					0
144	Comp							"	4s
145	HD 22951	033602	-333839	015309					
146	Comp	"	"	020919				"	783
147	Comp							~~FLATS~~ NE5	4
148/156	FLATS x 9							Tung NO5	4s
157	BiHS(4)			0217					0

cc0 Spectr. Temp. Focus Spectr. Temp.

Exp Mtr 1330V Sec

285 3

16K 2

2K 2

4

CCD
~~Spectr.~~ Temp. −100.3°C ... Dome Temp./Hum. +2.2°C 67.5% Transparency Conditions Part. Cloudy 292

Focus 7.00

Spectr. Temp. ... Dome Temp./Hum. +1.2°C 71.7%

Exp. Mtr.	Seeing	Pwr. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
1320											
2085	3"	12.8	0	C4SS	600c 27.03	306	5130Å	~~28~~	Carefully did Topup during exposure		
								29			
1.6K	2-3"							30		cloud extend	
								31			
								1			
								5			12k
3K	2-3"	4.6	B05	V				6		mostly cloudy	
4K								7		mostly Stg	
								~~8~~			~~12.4k~~
								2			12.4k
								1			

293py#1 Mon/Tues

Date 1997 Nov 10/11 Observers [Rm]/Tn/Lq

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp
CC 50158/59	inboard / outboard HARTMANN							FEA ND4	4/6
60	BIAS(4)			2343					0
61	comp							"	4s
62	HD203156	211523	+374855	234958					192
63	Comp							"	4s
64	comp							"	4s
65	HD30282	044106	363200	235953					679
66	Comp							"	4s
67	Comp							"	4
68	HD22484	033146	000504	002017					90
69	comp							"	4
70	comp							"	4
71	HD44990	061949	070825	003224					379
72	Comp							"	4
73	BIAS (4)			0040					0

CCD
Spectr. Temp. −100.3 °C... Dome Temp./Hum. 1.30°C..70%H Transparency Conditions Clearing 294

Focus ....6-88.....

Spectr. Temp. ..... Dome Temp./Hum. ..... ~ 104 MAX

Exp. Mtr.	Seeing	Ptg Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
1000 V				CASSCCD	1800L 5493	30μ	6400Å	5/6	focus test		
			F					1			
								7			10.8K
5K	4"	5.8	F-G					8	Rm pgm		1.7K
								9			
								9			
7.1K	4"	8	F-G					10	"		3.3K
								11			
								11			
12K	4"	4.28	F9III-IV					12	std vel		4.7K
								13			
								13			
9K	4"	7	F-G					14	Rm pgm		4.2K
								15			
								1			

295 Pg #2 Mon / Tues

Date 1997 Nov 10/11 Observers [Rm] / Lu / Tu

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CG81169/72	BD+40 594	031024	+3216					4x	
73/76	DHRK							4x	
77/78	"							2x	
79/80	BD+40594							2x	
CC50174	comp							FeAr ND 4	4s
75	HD25361	035612	583300	010235					607
76	comp							"	4
77/84	flats x8							Tung ND 5	6
85/86	inbound / out Board							FeNe ND 5	4/2
87	Comp							"	4
88	Vys 419 A/B	031800	232509	013300					2350
89	comp							"	4
90	BIAS(4)			0219					0
91	comp							"	4

CCD
Spectr. Temp. −100.3°C Dome Temp./Hum. 1.1°C / 66.3% Transparency Conditions clear 296.

Focus 6.88

Spectr. Temp. ..... Dome Temp./Hum. ..... 400 0 50 1024 4 1 CCDFinT

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				CASS CCD	1800 l/mm 54.93	306	6400 Å		Seeing test for Scaling		
	Poor to mediocre			H Beam ~~Hole~~		306	Slit			$\Delta\alpha \cos\delta = -10.8$	
										$\Delta\delta = +13.1$	
								16			
3.6K		7.5	F-G					17	Rm Pgm		
								18			
								2			11.8K
V=1320						306	5300Å	1/2	focus test		
								7			
3670	4"	12?	M?					8	Vys 419A/B "C" too faint		
								9			
								1			
								9			

PG #3 Mon/Tues

297 Date 1997 Nov. 10/11 Observers [Vys]/Tn/Lu

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CCD 0192	AC+72 3338	06 32 57	71 59 24	02 30 28					1819
193	Comp							FeNe ND5	4
194	Comp							"	4
195	HD 36345	05 26 18	-03 41 06	03 08 15					629
196	Comp							"	4
197	BIAS (4)			03 20					0
198	Comp *							"	4
199	BD+10 1857C	08 37 20	+09 55 13	03 28 35					2100
200	comp							"	4
201	BD+10 1857AB	"	"	04 06 23					1433
02	comp							"	4
03	BIAS (4)			04 32					0
04	comp							"	4
05	HD 95735	10 57 54	36 38 00	04 37 12					371
06	comp							"	4

* w Rono stars, (on west side of Vys 257AB)

CCD

Spectr. Temp. −100.3°C Dome Temp./Hum. 0.2°C/66.7% Transparency Conditions Clear 298

Focus 6.88

Spectr. Temp. ..... Dome Temp./Hum. ..... ~ max

Exp. Mtr. 1320V	Seeing	Rtg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
4.5K	3"	11.0	M0	CASS CCD	1800/mm 47.75	306μ	5300	10	Vys 238	~100 above sky	340
								11			74K
								12			
15.7K	3"-5"	797	M1					13	Marcy std vel		960
								14			7.2K
								1			
								15			
2627		11.8	*M2					16	Vys 257c	Looks earlier probably w200 one.	
								17			
8750		9.6	M2					18	Vys 257 A3		
								19			
								1			
								19			
17K	3"	7.48	M2					20	Marcy std		
								21			

299 pg #4 Mon/Tues

Date 1997 Nov 10/11 Observers [Vys]/Tu/Ly

Emulsion Batches:

Spectr. Temp.

Focus 6

CCD Spectr. Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp Mtr	Se
CC50207	Comp							Fe-Ne W25	4s	1320V	
08	BD+10 1857C	08 3720	+9 5513	04 4812					208s	338	
09	Comp							"	4s		
10	Comp							"	4s		
11	BD-01 322	10 06 59	-02 10 56	05 33 18					98s	34	
12	Comp							"	4s		
13	BIAS (4)			05 51							
14	Comp							"	4s		
15	BD+17 3088	10 07 24	+18 07 26	05 58 58					73s	1450	
16	Comp							"	4s		
17/23	FLATS x7	(edit object to Tung) ✓						TUNG W04	4s		

Spectr. Temp. ..... Dome Temp./Hum. −1.4°C 69%H Transparency Conditions ... OK ... 300

Focus ... 6.88 .....

~~Spectr~~ CCD Temp. ..... — °C Dome Temp./Hum. −1.5°C 69%H

Exp. Mtr.	Seeing	Pig. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
1320V		#		CASS CCD	1800/m 47.75	30u	S300	21			
3.3K	4"	11.8	M2					22	Vys257C	The one to East of Vys 257AB	
								23			
								23			
3.4K	4"	10.6	M0					24	Vys 568	DSS Field add	
								25		—	
								1			
								26			
3450	5"	9.9	M0					27	Vys 570		
								28			
								2			11K

301 pg#1 Tues / Wed

Date 1997 Nov 11/12 Observers [Vgs] / Tb / Ld

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CCD 502 24/25	I-board / out							FeNe N05	4/2
26	BIAS(4)			1729					0
27	Comp	edit/ entype						"	4s
28	HD 199081	20 49 43	+44 00 31	~1732				~	100s
29	Comp							"	4s
30	comp							"	4s
31	HD 216899	22 51 48	16 02 00	17 49 26					385
32	Comp							"	4s
33/38	FLATS x6							JUNG N04	4s
39	Comp							FeNe N05	4s
40	HD 44982	06 19 48	82 21 00	19 47 08					1000
41	Comp							"	"
42	HD 44982	edit/ "	"	20 05 20					1000
43	comp							"	4
44	BIAS(4)			2023					0

CCD
Spectr. Temp. −100±3 °C. Dome Temp./Hum. +2.5°C 46% RH Transparency Conditions Pt & T Clear 302

Focus 6.94

Almost Full Moon

Spectr. Temp. ..... Dome Temp./Hum. .....

Exp. Mtr.	Seeing	Pg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
1320V				CASSCCD	1800 l/m 47.75	306	5300A	3/4	focus test		
								1			
								5			63K
50K	<2"	4.78	B5V					6	NORMALIZATION STAR		43K
								7			69K
								8			
3K	1"-2"	866	M2					9	M1 Crystal cloudy sl wet		
								10			
								2			
								11			
8.35K	1"-2"	9.8	G5V					12	SV cam.		
								13			
9.3K	"	"	"					14			
								15			
								1			

303
pg #2 Tues / Wed

Date 1.9.9.7. Nov 11/12 .. Observers [V.4.S.] / T.G. / L.H. .....

Emulsion Batches:
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.....

Plate No.	Object	R.A. ~~1900~~	Declination ~~1900~~	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC 5024 5	Comp							FeNe N05	4s
46	AC+80 07	00 13 57 (2000)	80 39 41	20 27 17					1100
47	Comp							"	4s
48	comp							"	4s
49	AC+69 173	00 21 09 (1900)	69 35 29	20 51 36					511
50	Comp							"	4s
51	BIAS(4)			21 02					0
52	Comp							"	4s
53	HD 1376	00 12 42 (1900)	+43 27 00	21 07 32					504
54	HD ~~1376~~	"	"	21 16 46				~~"~~	493
55	Comp							"	4s
56	Comp							"	4s
57	AC+55 19224	02 49 10	+55 02 14	21 46 29					760
58	comp							"	4s
59	BIAS(4)			22 01					0

Spectr. Temp. ..... Dome Temp./Hum. +1.1°C 50.6%H Transparency Conditions ... Part Clear 304

Focus ..... 6.94 .....

Spectr. Temp. ..... °C Dome Temp./Hum. +00.7°C 50.9%H

400 0 50 1024 4 1 CCD FMT

Exp. Mtr.	Seeing	Pix. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
1320V				CASSCCD	1600 l/m 47.75	306	5300Å	15			6.7K
3470	<2"	10.7	MO					16	Vys 354A	L 00 00 38 L 00 00 30	
								17			
		~~10.6~~						17			
1.9K	1-2'	1057	MO					18	Vys 357	thin cloud very weak	
								19			
								1			
								20			
3K	1'	8.07	mixe					21	Murky Silver	cloud	
6K	1-2"	"	"					21	" "	+ particle	
								22			
								22			
3320	1"	105	MO					23	Vys 410A	~~15 AOU above~~ sky thin cloud ~~starting~~ weak	
								24			
								1			

305 Pg #1 Wed/Thurs

Date 1997 Nov 12/13 Observers MKi / TH

Emulsion Batches: .....

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC50260	BIAS (4)								0
61/62	Inbound / outbound							FeNe ND5	4/2
63	Comp							"	4
64	HD216849	22 51 48	+16 02 00	17 32 16					453
65	Comp								4
66/69	FLATS x 4							TUNG ND4	4s
CC50270/71	Inb / out							FeAr ND4	3/4
72	Comp							"	4
73	HD201057		"Io" (Moon of Jupiter)	18 59 26					72
74	Jupiter	"	"						4
75	Jupiter ✓	"	"						10
76	Comp							"	4
77	BIAS (4)								0
78/82	FLATS x 5							TUNG ND5	25
83	BIAS (4)								0

Spectr. Temp.

Focus 6-

Spectr. Temp.

Exp Mtr	Sec
1000 V	
835	3
-9.1°C	
53K	

Spectr. Temp. ..... Dome Temp./Hum. -00.5°C 69%H Transparency Conditions .... Fine 306

Focus .... 6-94 .....

Spectr. Temp. ..... Dome Temp./Hum. -1.3°C 61.3%H

Exp. Mtr.	Seeing	Pix Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
1000 V				CCD	1200 l/mm 47.7°	30μ	5300Å	1 ~~2~~			
								3/4			
								5			
835	3.5"	8.66	M2					6	W/AR coy	Shifted	
								7			
								7			10K
-1.1°C	7.04				29.15		6300Å I 10Å P 512	3/4	focus	~~325~~ 0 50 1024 4 1	
								5			
40K								6		Jupiter Saturn at el.	5.5K
								7			4K
								8			
								9			
								1			
								2			13K
								1			

307 PyHa wet/Thurs

Date 1997 Nov 12/13 Observers MKi/TG

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Ex
cc50284	~~HD201057~~ IO	210208	-175124	192418					160
85	✓ SKY near IO ✓								160
86	Comp (Heard SAGs (object) 3sec exp : tel Nov 21/97							Feat ND4	4s
cc50287/88	Inboard / outboard	Hartmann						Feat ND3	4/6
89	BIAS (4)			2207					0
90	Comp							"	4s
91	* BD+17/579	1994.25 033459	+174236	222812					1620
92	" edit ✓	"	"						446
93	Comp							"	4s
94	Comp							"	4s
95	HD44982	1900 061948	+822100	231624					1011
96	Comp							"	4s
97	HD44982	"	"	233420					1005
98	Comp							"	4s
99	BIAS (4)			23					0

Spectr. Temp. ..... Dome Temp./Hum. -1.4°C 62% Transparency Conditions ..... Fine 308

Focus ..... 7.04 – 6.96 for 1800 l/m

Spectr. Temp. ..... Dome Temp./Hum. -2.5 69.5% MAX

Exp. Mtr.	Seeing	Tel. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
1000 1.9K	5"	6		CASS CCD W	600C smallest	306u decker setting		10		~~CCDFMT~~	10K
~70					29.15 00			11		encoder logged too	
								12			
				CASS CCD	1800 l/m 47.06	306u	5184 Å	1/2	focus test	CCD Rotated 90°CW of norm HL O 375 1024 5014 CCDFMT	
								1			
								3			
235		~12						4		wrong star	
83		"						5		" "	
								6			
								6		Tel West side now	
750	4"	9.8	G5V					7	SV Cam	Δα +00 0209 Δδ -00 0209	
								8			
735		"	"					9			
								10			
								1			

20 Py #3

Emulsion Batches:

Date 1997 Nov 12/13 Observers PK. J. Tu

Copy 158–184 To [illegible]

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp
CC50300	Comp							FeAr NO 3	4s
01	HD224484	03 31 46	+00 05 04	00 08 53					
02	Comp							"	4s
03	Comp			19 11 25? *	check encoder log			"	4s
04	BD+17 579	03 34 59	+17 42 38	00 25 14					1118
05	Comp "	"	"	00 44 57				~~*~~	~~1100~~
06	Comp.							"	4
07	BD+17° 579	03 34 59	+17 42 38	01 02 17					939
08	"	"	"	01 18 22					9
09	Comp							"	4s
10	BD+17 579B	"	"	01 35 10					750
11	Comp								4s
12	BIAS(4)			01 50					0
13	"			01 56					0
14/20	FLATS X 7							Tung NO 4	6s

CCD

Spectr. Temp. -100.2°C Dome Temp./Hum. -2.4°C 68.3% Transparency Conditions OK - Cloudy 340

Focus 6.96

Spectr. Temp. ..... Dome Temp./Hum. -2.5°C 72% H

cd 0 375 1024 50 1 4 <COFMT

Exp. Mtr.	Seeing	Pic. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
1000V					1800/mm	3/64	5184	11			
		4.38	F9 IV V					12	stkbl	~~-00 00 00~~ -00 01 54	4K
								13			
								14			
622	2"-3"	~10	60					15		Brightest of Close double (NW one)	
540								16			
								17			
608	2"-3"							18			
610								19			
								20		add image	
350	2"							21		faint SE ~~East~~ one. Then cloud	
								22			
								1			
								1		Looks normal	
								23			

311 pg#1 Thurs / Fri

Date 1997 Nov 13/14 Observers Mk. + Gld. etc. / T.M

Emulsion Batches:
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.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC503 21/22	Inboard / Out Board		Hartmann					FeAr NO3	4/6
23	BIHS(4)			1735					
24	Comp							FeAr NO3	45
25	HD199081	20 49 43	+44 00 31	173746					63
26	Comp							"	9
27	Comp							"	4
28	TYC 3887 1381	19 10 57 (2000)	+53 21 10	174616					1200
29	Comp							"	4
30	TYC 3887 1381	"	"	18 12 18					1800
31	Comp								45
32	BIHS(4)			18 44					0
33	TYC 3487 1241	"	"	18 44 27					
34	Comp							"	4
35	Comp							"	9
36	HD 177724	19 00 49 (1900)	+82 53	192007					64
	~~Comp~~								

CCD
Spectr. Temp. -101.1°C Dome Temp./Hum. +1.1°C 65% Transparency Conditions PAT Clear, 312.

Focus 6.88 Full moon

Spectr. Temp. -101.0°C Dome Temp./Hum. -00.2°C 60% (C) 400 050 1024 4 1 CCDFLAT

Exp. Mtr.	Seeing	Plate Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
1000V No Filter				CASS CCD	1800m 51.58	25μ	5874Å	3/4	Focus test		
						Clock		1			
						Heaters		5			5.5K
3K							Kw 21 Tm	6			22K
							5194?	7			
								2			
1320V 4K	1-2"	10.92						8		Δα -00 00 24 -150 ADU Δδ -00 01 18 Arc sky	
								9			
4.2K	2"-3"	10.92						10		Thin cloud/haze	
								11			
								1			
4.4K	2-4"	10.92						12			
								13			
								14			
9.7K								15			14K

313 PyH2 THURS/FRI

Date 1997 Nov 13/14 Observers Gld + / Th

Emulsion Batches:
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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC 50337	HIP 177724	19 00 49	+13 42 53	19 21 56					167
38	Comp							FeAr ND3	45
39/47	FLATS x 9							TuNG ND4	45
48	BIAS(4)			19 31					0
49/50	Tabard / Out Board							FeAr ND3	9/5
51	Comp							FeAr ND4	45
52	HD 222994	23 40 36	+24 55 00	19 57 28					355
53	Comp	"	"	~~20 10 52~~	Too weak,			"	~~580~~
54	HD 222994	"	"	20 33 08					550
55	Comp							"	4
56	BIAS(4)			21 01 30					0
57	Comp							"	4
58	HD 4614	0 43 03	57 17 06	21 12 40					102
59	HD 4614	0 43 03	57 17 06	21 19 04					22
60	HD 4614	0 43 03	57 17 06	21 24 39					108
61	comp							FeAr ND4	9

Spectr. Temp. ..... Dome Temp./Hum. ..... Transparency Conditions ... Cloudy .....

Focus .... 6.88 for 1800 / 7.13 for 600 grating

Spectr. Temp. ..... Dome Temp./Hum. ..... 400 0 50 1034 4 CCDFLT

Exp. Mtr.	Seeing	Mg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
1320V 83K		2.77	B			~~25u~~	5844Z	16	Telluric Std.		6.3K
								17			
								18			~~5.4K~~
								1			
still 1320V		Set 7.13			0600	47u	~~4084~~	3/4	focus	SAME CCDFLT. 0 S PREVIOUS	
								19			3K
5K	3"	9.06	F5					20		Cloudy	
~~8.9K~~								~~1~~		Reset AH after a typo CRASH	
12K								4			
								5			
								1			
								5			
~~3.2K~~ 2.4K		3.5		F9V				9			
2.2K								7			
2.1K								7			
								8			

315 P43

Date 1997 Nov 13/14 Observers Old L. Atlanta others / Tu

Emulsion Batches:
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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc503 62/66	FLATSx	5						JUNG ND3	6s
67	BIAS(4)			2150					0

Spectr. Temp. ..... Dome Temp./Hum. ..... Transparency Conditions ... Cloudy 316

Focus ... 7.13 .....

Spectr. Temp. ..... Dome Temp./Hum. ... −160°C ...

Comparison Filter	Exp	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
26 3	6s						0600C 25~~15~~	470u	4080A	10			1/4
	0									1			

3m PG #1 Tues/Wed

Date 1997 Nov 18/19 Observers Lu/Tn

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC5368/69	Inboard / outBoard		Hartmann	test				Feather ND3	4/2
70	BIAS(4)			1907					0
71	Comp							"	4
72	CN And	00 2030	40 1336	19 14 41					800
73	comp							"	4
74	CN And	"	"	19 31 17					1202
75	Comp							"	4
76	Comp							"	4
77	HD 72368	233448	050503	19 57 27					122
78	Comp								4
79	BIAS (4)			20 03					0
80/86	FLATS x 7			20 05				Tung ND3	4

CCD
Spectr. Temp. −100.5 °C. Dome Temp./Hum. +009°C 64%H Transparency Conditions Partial clearing 318

Focus ..... 693 .....

Spectr. Temp. ..... Dome Temp./Hum. .....

CO ~ MAx

Exp. Mtr.	Seeing	Pr. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
no filter 1005				CASS CCD	1800 l/mm 4706	306	5184	3/4	focus test		
								1			
								5			4+
440:		10	F5					6		through clouds	
								7			
470	2"3"							8		"	
								9			
								9			
7K		4.13	F7 V					10	Stibel	cloudy ~	4+
								11			
								1			
								2			3+
								~~16~~			
								~~16~~			

319 Thurs / Fri

Date 1997 Nov. 20/21 Observers T./Lu

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc5038 7/88	Inb/out							Fe/Ar NO3	4/7
~~85~~	B/HS(4)	written later.							0
~~89~~	Comp							"	4s
90	HD 200905	21 01 18	+43 31 44	17 27 14					~~7~~ 6
91	Comp							"	4s
~~92~~	Comp							"	4s
93	HD 187691	19 46 14	10 09 55	17 36 08					135
94	Comp							"	4s
96	Comp							"	4s
97	HD 44982	06 19 48	+82 21 00	17 ~~53~~ 59					1200
98	Comp							"	4c
99	~~HD 44982~~ BIAS(4)			18 34					~~400~~
cc5040 9/06	flats							Tung ND 3	4

CCD
Spectr. Temp. ..... Dome Temp./Hum. +2.6°C 67%H Transparency Conditions ..... Fine 320

Focus ... 6.93 .....

Spectr. Temp. ..... Dome Temp./Hum. ..... CD

Exp. Mtr.	Seeing	Fig. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
				CASS CCD	1800 l/mm 47.06	306u	5184Å	3/4	focus test		
								1			
		3.72	K4-5	I6-II				5			
		3.77	K5-5	I6-II				6	Just normalization star		7.7K
								7			
50K	1"	5.11	F8V					7 8	steller		
								10			
422	2"	9.8	G5V					11			
								12		through clouds	
~~2297~~		"	"					~~81~~			
								2			12.5K

321

FRi / SAT

Date 1997 NOV 21/22 Observers [illegible] / Tn

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CCD 07/06	Inbound	/ OUTBOUND	AURTmalon test					FeNe NDS	4/2
09	Comp							"	4
10	HD 218804	23 05 50	+43 00 25	19 35 06					385
11	Comp							"	4
12	BIAS(4)			19 43					0
13	Comp							"	4
14	AC +09 2-34	00 13 08	+09 38 50	20 03 38					207
15	Comp							"	4
16	AC +09 2-34	"	"	20 42 02					845
17	Comp							"	4
18	Comp							"	4
19	HD 1326	00 12 58	+43 27 44	21 01 15					836
20	Comp							"	45
21	BIAS(4)			21 16					0
22/28	~~Comp~~ FLATS x 7							TUNG IND 4	4x

CCD
Spectr. Temp. −100.3 °C Dome Temp./Hum. +1.4°C 69%H Transparency Conditions Clearing nicely → very hazy

Focus 6.93

Spectr. Temp. ..... Dome Temp./Hum. −0.4°C 66%H

400 0 50 1024 4 1 CCDEMIT

Exp. Mtr.	Seeing	Fwd. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
1000 V no filter				CASS CCD Ig rotating	1800 l/m 4775	306	5300Å	3/4	Focus test		
								5			6K
2K	1-2"	5.94	F5 IV					6	Just normalization star		1.1K
								7			
								~~8~~			
								8			
400	1"-4"	10.4	MO					9	Vys 356	(25 104 a bad sky) weak	
								10			
150	3"	4	"					11	Vys 356	cloud again	
	~~3"~~							12	~~Vys 356~~		
								13			
670	3"-4"	8.07	mid					14	Mercy	Std	
								15			
								1			
								16			10K

323 Pg #1 Mon / Tues

Date 1997 Nov 24/25 Observers [Vyas] / Tan / Ly

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp	Evc Mtr	Seeing
cc504 24/30	In board / out board							FeNo NPS	1/2		
31	BIAS(4)			1737							
32	Comp							"	4		
33	HD 205730	21 3214	+44 5536	175354					88		
34	Comp							"	4		
35	Comp							"	4		
36	HD 216899	22 5148	+16 0200	180346					660	1080	
37	Comp							"	4		
38	Comp							"	4		
39	AC+11 710-70	23 48 28	+11 3307	181909					2124	156	
40	Comp							"	4		
41	MYS 870A	"	"	185702					2055	330	
42	Comp							"	4		
43	BIAS(4)			1932					0		
44	Comp							"	4		

CCD
Spectr. Temp. −101.3 °C Dome Temp./Hum. ~~−2.1°C~~ 62%H Transparency Conditions Clearing ... some snow risk 324

Focus 7.00

Spectr. Temp. ..... Dome Temp./Hum. ..... CCD 400 0 50 1024 4 1 CLOFMT n MAX

Exp. Mtr.	Seeing	Rtg Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
1000 V no Filter				CASS CCD	1800/m 47.75°	30μ	5300	3/4	focus test		
								1			
								5			
~~25~~ K		5.53	M5	III.e				6	NORMALIZATION star		2K
								7			
								7			
1080	4"	8.66	M2					8	Many std vel		670
								10			
								12		~40 ADU Abs in region	
156	3-5"	12.2	M10					13	Vys 870B	fainter SE one of pair	
								14			
330	3-5"	~~11.5~~						15	Vys 870A	~ 90% above sky	
								16			
								1			
								16			

3Pg HO Mon/Tues

Emulsion Batches: .....

Date 1997. Nov. 24/25.. Observers [Vys]/Tn/Lg..... .....

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp
CC50445	BD-09 40	00 12 34	-09 14 23	19 37 00					160
46	Comp							Telle ND5	4s
47	comp							"	4s
48	Vys 395	02 30 14	19 47 07	20 08 14					126s
49	comp							"	4s
50	BIAS(4)			20 31					
51	Comp							"	4s
52	HD1326	00 12 42	+13 27 00	20 36 04					117
53	Comp							"	4s
54	Comp							"	4s
55	Vys 385	01 58 29	-05 23 23	21 04 14					122
56	Comp							"	4s
57/63	FLATS x 7							TUNG ND4	4s
64	BIAS (4)			21 38					0
65	Comp								4s

Spectr. Temp. ..... Dome Temp./Hum. -4.8°C 62%H Transparency Conditions ..mostly clear.....

Focus .....7.00.....

Spectr. Temp. ..... Dome Temp./Hum. cl

Exp. Mtr.	Seeing	Pic. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
1000V 302	3"	10.98	M10	CASS CCD	1800lm 4.75	306u	5300Å	18	Vys 355	190 ADU clear	sky
								19			
								19			
268	3"	10.7	M2					20	AC+20 821-180	clouds in the field.	
								21			
								1			
								21			
1910	3"	8.07	MIVe					22	IMAGE STARS	mostly cloudy	
								23			
								23			
190	3-5"	11.2	M					24	Vys 385	AC-06 2360-60 cloud edge	30 ADU
								25			sky
								2			10.5
								1			
								25			

327 Pg 43 Mon/Tues

Date ..1997 Nov 24/25... Observers .[Vys]../Tu./Lu.....

Emulsion Batches:
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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC50466	AC+09 2-37	00 13 08	+09 38 50	21 53 20					1687
~~68~~ 68	Comp							FeNe ND5	4s
67	~~Comp~~ BIAS(4)			22 40					0
69	Comp							"	4s
70	~~AC+04 2410-76~~ BD+10 1857C	08 ~~37~~ 20	+09 55 13	00 ~~49~~					1860
71	Comp							"	4s
72	Vys 257AB	"	"	01 16 17					615
73	Comp							"	4s
74	BIAS(4)			01 28					0
75	Comp							"	4s
76	AC-4 2410-76 Vys 413	03 02 34	-04 21 03	01 35 34					1310
77	Comp							"	4s
78	comp							"	4
79	Vys 419 C	03 18 20	23 25 09	02 09 40					2274
80	Comp							"	4

Spectr. Temp. ..... Dome Temp./Hum. -5.5°C 66%H Transparency Conditions .. Mostly cloudy 328

Focus ..... 7.00 ..... Thin clear.

Spectr. Temp. ..... Dome Temp./Hum. .....

Exp. Mtr.	Seeing	Pg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
100V 300	3½"	10.4	MO	CASS CCD	1800h 47.75	306	5300	27	Vys 356	65 10u Hi ave sky	
								28			6-6K
								~~38~~ 1			
								28			
242	3"	~~11.8~~	MO					26	Vys ~~257~~ C		
								29			
440	2"							30	Vys 257 AB	B+10, 857 AB	
								31			
								1			
								5			
301	3"	10.5	MO					6	Vys 413	Field clocks OK	
								7			
								7			
239	3"	11.89	M					8		[Right star] ~ 95 ADU near sky	
								9		Hi w CMRD Field OK	

324 pg #4 Mon/Tues

Date 1997 Nov 24/25 Observers [Vgs]/Tn/Lq

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc50481	Vgs 419B	03 18 20	+23 25 09	02 50 54					1238
82	Comp							ENG NO5	4s
83	BIAS (4)			03 19					0

Spectr. Temp.
Focus 7
Spectr. Temp.

Exp. Mtr. Se

Spectr. Temp. ..... Dome Temp./Hum. -5.7°C 73.3% Transparency Conditions ... Fine - cloudy 330

Focus ..... 7.00 Topup @ 02:10

Spectr. Temp. ..... Dome Temp./Hum. .....

Exp. Mtr.	Seeing	Pg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~ cd	P.H.	Program	Remarks	Quality
10000 140	2"-3"	~125		CASSCCD	1800 h 47.75	3064	5303Å	10 ci	Vys 419B	Further component of AB It's ~ 3" NORTH of A > 45 APA above SKY	
								11			
								1			

Comparison Filter Exp.

PG1
331 1997 Nov. 28/29 [HI]/TEC/LFB
Date ..... Observers Mkt / Lu

Emulsion Batches:
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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC5048[illegible]	Inboard/outboard							FeAr ND3	4/5
86	BIAS(4)			18:36					
87	BIAS(4)			00:26				FeAr ND4	
88	comp							FeAr ND4	4
89	HD6961	010501	543705	00 28 19					90
90	comp							"	4
91	HD6961			00 32 49				"	100
92	"			00 34 53					105
93	comp							"	4
94	comp							"	4
95	HD4614	00 43 03	571706	00 44 56					50
96	"			00 46 32					50
97	comp							"	4
98	comp							"	4
99	HD13974	021057	334600	00 54 38					180
CC5050[illegible]	"	"	"	00 58 35					200

Spectr. Temp. 100, 4°C Dome Temp./Hum. 5.0/90.3% Transparency Conditions cloudy 332

Focus 7.05

Spectr. Temp. Dome Temp./Hum. 395 0 50 1024 4 1 CCDFMT

Comparison Filter	Comparison Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
Hr	4/5					CASS CCD	600 l/mm 25,20	470μ	4100	3/4			
										1			
										1			
Ar	4									5			11.8K
	90	8.4K	4"	4x3	A7V					6		— clear	
	4									7			
	100	10.5								8			
	105	10.5								9			
	4									10			
	4									10			
	50	10.3		3.5	F9V					11			
	50	10.3								12			
	4									13			
	4									13			
	180	10.3		4.9	G0V					14			
	78	10.2								15			

333 PG 2

Date 1997. Nov 28/29 Observers [HI]/TEC/LFB/Lu

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp. Mtr.
cc50501	comp							Fe Ar ND 4	4	
02	comp							"	4	
03	HD9826	01 30 56	40 54 19	01 07 10					210	10,8 K
04	"			01 11 00					100	10 K
05	comp							"	4	
06	Comp							"	4	
07	HD 10307	01 35 42	42 06 12	01 17 12					624	3K
08	comp							"	4	
09	BIAS (4)			01 29					0	
10	HD 10307	"	"	01 31 16					400	6,3K
11	"			01 38 18					226	4,4K
12	comp							"	4	
13	comp							"	4	
14	HD34989	-5 16 17	08 19 46	01 49 08					407	10K
15	"			01 56 18					43	16K
16	comp							"	4	

Spectr. Temp.
Focus
Spectr. Temp.

Spectr. Temp. −100.5°C Dome Temp./Hum. 2.8°C/84.40°C Transparency Conditions clear 334

Focus 7.05

Spectr. Temp. Dome Temp./Hum.

Comparison Filter	Comparison Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	4					CASS CCD	600 l/mm 25,20	47μ	4406	16			
	4									16			
	20	10.8 K		4.1	F8V					17		— clouds coming.	
	100	10 K								18			
	4									19			
	4									19			
	624	3 K		5.0	G2V					20		cloudy.	
	4									21			
	0									1			
	400	10.3 K								22			
	226	6.4 K								23			
	4									24			
	4									24			
	402	10 K		5.8	B1V					25			
	43	16 K								26			
	4									27			

PG 3

335 Date 1997 Nov. 28/29 Observers [HI]/TEC/LFB/Lu

Emulsion Batches:
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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC5051	comp							FeAr ND4	4
18	HD 35007	05 16 26	-00 30 57	02 08 19					397
19	"			02 15 16					360
20	comp							"	4
21	BIAS(4)			02 22					
22/28	flats							Tung ND3	6s
29	HS 0624+6907	06 30 03	69 05 04	04 50 12					1802
30	"			05 20 45					2100
31	comp							FeAr ND5	1.5s
32	BIAS(4)			05 59					
33/37	flats							Tung ND5	0.5s
38	BIAS(4)			06 04					0

Spectr. Temp.
Focus
Spectr. Temp.

Exp Mtr | Seei

93K
91K

HV=19

1150
1350

Spectr. Temp. −100.5°C Dome Temp./Hum. 2.4°C / 84% Transparency Conditions ..... mostly clear

Focus ..... 7.05 ..... / 336

Spectr. Temp. ..... Dome Temp./Hum. .....

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				CASS CCD	600c/mm	470μ	4100	27			
10.3K		5.67	B3V					28			
10.1K								29			
								30			
								1			
								2			13.7k
HV = 1320 Volts					150/mm	47μ	6600				
1150		14.2						6	Q50	420 0 50 1024 41 CCDFMT.	
1380								7			
								8			
								1			
								2			12.9k
								1			

PG 1
337

Date 1997 Nov. 29/30 Observers Gld+ / Lu

Emulsion Batches:
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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Spectr. Temp. Mtr	Spectr. Temp. Sec
cc 0539/40	Inboard/outboard							FeAr ND3	4/5		
41	BIAS (4)			17 54					0		
42	comp							FeAr ND4	4		
43	HD 222994	23 40 36	24 55 00	18 06 12					1800	255	4"
44	comp							"	4		
45	HD 222994	"	"	18 37 53					1820	-310	
46	comp							"	4		
47	BIAS(4)			19 09					0		
48	comp							"	4		
49	HD 16895	02 37 22	48 48 20	19 18 33					80	17.2K	
50	"	"	"	19 20 39					95	17.5K	
51	comp							"	4		
52	comp							"	4		
53	HD 21770	03 25 30	45 43 05	19 28 18					280	10.3K	
54	"	"	"	19 33 21					280	10.2K	
55	comp							"	4		

Spectr. Temp. −100.2°C Dome Temp./Hum. 25°C / 17.8°C Transparency Conditions ... fine + some clouds

Focus ... 7.11 ...

Spectr. Temp. ... Dome Temp./Hum. ...

338

380 0 50 1024 4 1 CCDMT

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				CASS CCD	600 l/mm 25.20	4" 1"	4100	3/4			
						470 20		1			
								5			
2555	4"	9.5	F5					6			
								7			
2310								8			
								9			
								1			
								9			
10.2K		4.1	F7V					10			
10.5K								11			
								12			
								12			
10.3K		5.3	F4III					13			
10.2K								14			
								15			

PG 2

339 Date 1997 Nov. 29/30 Observers Gld+/Lu

Emulsion Batches:
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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp	Exp. Mtr	Seeing
c CC50556	comp							FeAr ND 4	4		
57	HD 20630	03 14 07	03 00 13	19 45 13					719	7K	4"
58	comp							"	4		
59	BIAS(4)			19 59					0		
60	comp							"	4		
61	HIP 17818	03 49 28 (2000)	12 54 44	20 31 16					180	800	
62	comp							"	4		
63	HIP 17818	"	"	21 03 06					1813	890	
64	comp							"	4		
65	BIAS(4)			21 34					0		
66/72	flats							Tung ND 3	6		
73	comp							FeAr ND 4	4		
74	HD 27534	04 15 42	18 11 00	21 54 14					224	2050	
75	"	"	"	21 58 24					265	2000	
76	comp							"	4		

Spectr. Temp. −100,2 °C Dome Temp./Hum. 1.5°C/82.6% Transparency Conditions ..... some clouds

Focus 7.11 340

Spectr. Temp. ..... Dome Temp./Hum. .....

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				CASS CCD	600G/mm 25,20	470	4100	15			
7K	4"	4.8	G5V					16		— cloudy	
								17			
								1			
								17			
800		9,5	G0					18			
								19			
890		"	"					20			
								21			
								1			
								2			
								21			
2050		6,7	F5V					22			
2000								23			
								24			

341
PG 3

Date 1997 Nov 29/30 Observers Gldt/Lee

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp
CC50577	comp							FeAr ND4	4
78	HD 26015	040202	145543	22 08 00					192
79	"			221134					402
80	HD 26015 faint comp.			221850					207
81	comp							"	4
82	comp							"	4
83	HD 30652	044425	064712	222756					336
84	"			223359					121
85	comp							"	4
86	BIAS(4)			2237					0
87	comp							"	4
88	HD 56537	071221	164315	224137					288
89	"			224645					301
90	comp							"	4
91	comp							"	4

Spectr. Temp. −100.2°C Dome Temp./Hum. 0.5°C / 84.6% Transparency Conditions ..... fair 3.42

Focus .....

Spectr. Temp. ..... Dome Temp./Hum. .....

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				CASS CCD	600c/mm	47μ	4100	24			
2000		6.0	F3V					25		~~faintly~~ faint com, ~2 for seconds to NW	
2000								26			
255								27			
								28			
								28			
10K		3.2	F6V					29			
10K								30			
								31			
								1			
								5			
2200		3.6	~~F8V~~					6			
2600								7			
								8			
								8			

343

PG4

Date 1997 Nov. 29/30 Observers Gld+/Lu

Emulsion Batches:

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CCD Spectr. Temp. .....

Focus .....

Spectr. Temp. .....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Fog Mtr.	Se
CC50592	HD 44478	-6 16 55	22 33 54	225638					47	ok	
93	"	"	"	230414					248	ok	
94	comp							FeAr ND4	4		
95	BIAS (4)			2310					0		

CCD
Spectr. Temp. -100.2°C Dome Temp./Hum. 0.4°C / 84.6% Transparency Conditions ... mostly cloudy 344

Focus ... 7.11 ...

Spectr. Temp. ... Dome Temp./Hum. ...

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
10K		2.8	M3 III	CAS CCD	600 G/mm 25.20	470μ	4100	9			
40K								10			
								11			
								1			

Comparison Filter Exp.

41
248
Ar 4
04 4
6

345
pg#1 Sun/Mon

Date 1997 Nov 30/Dec 1 Observers ..Mn/J.Tn.....

Emulsion Batches: .....
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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC505 96/97	Fuboard/UTBoard							FeAr N04	4/6
98	Comp							"	4
99	HD 356	030140	+403414	225606					37
600	Comp							"	4
601	BIAS(4)			2304					0
602	Comp							"	4
603	HD 22451	033602	+333839	230641					47
604	Comp							"	4
605	Comp							"	4
606	VES 735	022007 2000	+610703	231840					2400
607	Comp							"	4
608	VES 735	"	"	000204					1025
609	Comp							"	4
610	BIAS(4)			0022					0
611	Comp							"	4

CCD
Spectr. Temp. −100.5 C Dome Temp./Hum. +2.0°C 73% Transparency Conditions Phot. Clear 346

Focus 7.10

Spectr. Temp. ..... Dome Temp./Hum. ..... 380 0 50 1024 41 CCDFMT ~MAX

Exp. Mtr.	Seeing	Pr. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
1000V				CASS CCD	600C 2705	306u	5140A	3/4	focus test		
								~~6~~			
		2.12	B&L					7	Normalization Star between standards		5.7K
								8			
								1			
								8			
5K	5"	4.97	B0.5 V					9	MK std		10K
								10			
1320V								10			
1400	4"	~~12.8~~	09?					11		~60 ADU above sky	
								12			
900	3"	12.8						13		~30 ADU above sky cloud at end	
								14			
								1			
								15			

347 Pg#2 Sun/moon

Date 1997 Nov 30/Dec 1 Observers Mn/Tn

Emulsion Batches:
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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC5012	HD36512	05 27 06	-07 22 31	00 29 03					187
13	~~Comp~~ HD36512			00 33 05					126
14	Comp							~~Fe Ar~~ ND4	45
15	Comp							"	45
16	HD48434	06 38 22	+04 01 54	00 47 15					519
17	Comp							"	45
18	Comp							"	45
19	HD46223	06 27 00	+04 53 00	01 02 11					250
20	Comp							"	45
21	BIAS (4)			01 46					0
22/28	FLATS x 7							TUNG → ND5	45
29	Comp							Fe Ar ND4	45
30	HD48279	06 37 30	+01 49 00	01 56 18					533
31	comp							"	45

CCD

Spectr. Temp. -100.4°C Dome Temp./Hum. +00.3°C 76.2% Transparency Conditions Mostly cloudy 348

Focus 7.10

Spectr. Temp. ..... Dome Temp./Hum. -00.1°C 73.1% 380 0 50 1024 4 1 CCDFMT

Exp. Mtr.	Seeing	Fig/Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
1000 V 6.8K	5"	4.6	B0V	CASS CCD	D600C 2705°	30u	5740	16	mk std	Slight saturation	5.5k
5K								17	encoders accidently renormalized on this star.		13k
								18			
								18			
K	4"	5.74	B0III					19	mk std.		13k
								20			
								20			
2.9K	3.5"	7.28	04V					21	mk std.	through cloud	5.5k
								22			
								1			
								2			N4
								23			
300	4"	7.86	08V					24	mk std	NORTH end of BRIGHTER of close PAIR.	
								25		also NORTH of wide pair	

PG 1
349
1997 Dec 1/2 Mon/Tues [Vys] Lu/Tn

Date ..... Observers .....

Emulsion Batches:
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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
CC 5063 3/33	Inbound/Outboard							FeNe ND5	4/2
34	Comp							"	4
35	HD 205730	21 3214	+44 55 36	17 18 14					57
36	Comp							"	4
37	BIAS(4)			17 21					0
38	Comp							"	4
39	HD 216899	22 51 48	+16 02 00	17 27 05					610
40	comp							"	4
41	Comp	~~2303~~						"	4
42	AC+3 2781-116	23 03 00	+02 47 05	17 41 44					1233
43	comp							"	4
44	comp							"	4
45	AC+17 30 7138	00 03 19	16 52 12	23 07 20					1202
46	comp							"	4
47	BIAS(4)			18 29					

Spectr. Temp.
Focus ... 6
Spectr. Temp.

Exp. Mtr. | Se

5K

422 2

316

336

Spectr. Temp. −100.3°c Dome Temp./Hum. +1.°c 6+6H Transparency Conditions Fine 350

Focus 6.95

Spectr. Temp. ..... Dome Temp./Hum. ..... 400 0 50 1024 4 1 CCDFMT

Exp. Mtr.	Seeing	Pg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	~~Emulsion~~	P.H.	Program	Remarks	Quality
					1800/mm 47.75	30u	5300Å	3/4			
								5			
5K		5.53	M5	Uae				6			2K
								7			
								1			
								7			6K
1422	2"	8.66	M2					8	Mercy Std vel		
								9			
								9			
316	1"-2"	10.9	M0					10	Vys 343	some cloud	
								11			
								11			
336	"	10.73	M0					12	Vys 351		
								13			
								1			

PG 2 Mon/Tues
351
Date 1997 Dec 1/2 [Vys] Observers Lu/Tn

Emulsion Batches:
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Spectr. Temp. 6
Focus .....
Spectr. Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.	Exp. Mtr.	See
CCS0648	comp							FeNe/ND5	4	500V	
49	BD-9 40	00 12 34	-09 1423	18 34 50					145D	318	18
50	comp							"	4		
51	comp							"	4		
52	Vys 385	01 58 29	-05 23 23	19 05 26					1765	357	
53	comp							"	4		
54	BIAS(4)			19 36					0		
55	comp							"	4		
56	Vys 396B	02 30 52	06 24 57	19 41 29					1900	305	
57	comp							"	4		
58	Vys 396A?	"	"	20 15 44					208	4000	
59	comp							"	4		
60	comp							"	4		
61	AC+11 20-183	02 38 56	10 32 07	20 24 10					1276	312	"
62	comp							"	4		
63	BIAS(4)			20 54					0		

Spectr. Temp. −100.3°C Dome Temp./Hum. −0.7°C/65.2% Transparency Conditions fine 352

Focus 6.95

Spectr. Temp. ..... Dome Temp./Hum. .....

Exp. Mtr.	Seeing	Pg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
1000V				CASS CCD	1800 l/mm 47.75	306	5300	13			
318	1"-3"	10.98	MO					14	Vys 355		
								15			
								15			
357		11.2	MO					16	AC-06 236-60		
								17			
								1			
								17			
305		11.66	M					18			
								19			
4000		5.9	M?					20		looks M star, maybe K.	
								21			
								21			
312	2"-5"	10.98	MO					22	Vys 4dA	thin clouds passing by.	
								23			
								1			

PG 3 Mon/Tues
353
Date 1997 Dec 1/2 Observers [Vys] / Lu / Tn

Emulsion Batches:
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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp.
cc5064	comp							FeNe ND5	4
65	HD1326	00 12 42	43 27 00	21 02 12					877
66	comp							"	4
CG81 81/84	HD13013	2 02 18	+43 59 07	21 35				4x	67ms
CG81 85/86	"							2x	133ms
cc5066 73	flats x7							Tung ND4	5
74	BIAS(4)			21 57					0
75	comp							FeNe ND5	4
76	AC+26 7021	02 46 32	26 33 59	22 02 22					2188
77	comp							"	4
78	BIAS(4)			22 41					0
79	Comp							n	4
80	HD 36 395	05 26 18	-03 41 00	22 45 23					864
81	Comp							n	4
82	comp							n	4

Spectr. Temp. −100.3°C Dome Temp./Hum. −1.3°C / 69% Transparency Conditions ... mostly cloudy 3sh

Focus 6.95

Spectr. Temp. ..... Dome Temp./Hum. −1.2°C 68.3%H 400 0 50 1024 41 CCDFMT

Exp. Mtr.	Seeing	P.S. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
1000V				CASS CCD	1800 l/mm 47.75	306μ	5300	23			
1473	2-5"	8.07	MIVe					24	Nancy std.		
								25			
Variable		640	G8TII		ABove	306μ	slit		Seeing test ALT 89°		
No Variation of Box or Intensifier (despite variable signal)									Dome West, moderate NW wind		
								2	Rebooted CCD controllers Cophers. Due to GPIB errors Hung up		12, 3/4
								1			
								5			GR
430	2"-4"	10.8	M0					6	Vys 406	GOAD Variable Sky mostly cloudy	
								7			
								1			
								7			
1170	4"	7.95	M1					8	Nancy std vel Hiv choice		
								9			
								10			

PG 4 Mon/Tues
355 1997 Dec 1/2 [Vys]/Lu/Tn

Date ..... Observers .....

Emulsion Batches:
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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Comparison Exp
cc50683	Vys 99	03 02 48	45 21 19	23 06 41					1130
84	comp							FeNe ND5	4
85	~~comp~~	BIAS(4)		2352				-"	~~4~~
	~~Vys H6 9/A~~								

300

CCD Temp. −100.3°C −1.2°C/68.3%

focus 6.95 CASS 1800 l/mm 306μ slit, 5300Å
CCD 47.75 400 0 50 1024 4.1

	M_{ag}^{V}	Sp	PH.		
300	10.2	M0	10	AC+45 130-216	through clouds - good.

~~11.~~

~~11~~

~~13~~ ~~North~~ South slightly ~~fainter~~ Brighter ~~Kys 446~~ ~~A~~

Perseus 128.100.TT.18
Crux 128.100.TT.25